

# Minnesota Department of Administration

PREDESIGN FOR DAKOTA BUILDING Faribault, Minnesota

Project No. 78FA0078

October 13, 2021

**FINAL REPORT** 







PREDESIGN SUBMITTAL FOR:

Minnesota Department of Administration

Dakota Building at MCF Faribault RECS Project #78FA0078

Faribault, Minnesota

October 13, 2021

I hereby certify that this report was prepared by me or under my direct supervision, and that

I am a duly registered ARCHITECT under the laws of the state of Minnesota.

Scott Fettig, AIA

Date:

October 13, 2021

Registration Number

22914



I hereby certify that this report was prepared by me or under my direct supervision, and that

I am a duly registered ENGINEER under the laws of the state of Minnesota.

Joel Maier, PE

Date:

October 13, 2021

Registration Number

19181

I hereby certify that this report was prepared by me or under my direct supervision, and that

I am a duly registered ENGINEER under the laws of the state of Minnesota.

John Paul Gille, PE

Date:

October 13, 2021

Registration Number

21476



I hereby certify that this report was prepared by me or under my direct supervision, and that

I am a duly registered ENGINEER under the laws of the state of Minnesota.

Matthew Armstead, PE

Date:

October 13, 2021

Registration Number

46694

I hereby certify that this report was prepared by me or under my direct supervision, and that

I am a duly registered ENGINEER under the laws of the state of Minnesota.

Todd Peterson, PE

Date:

October 13, 2021

Registration Number

23427



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The project will include the building demolition of the dilapidated masonry 3,249 GSF two-story portion of the building in its entirety and construct a new single-story structure of 4,383 GSF to provide for replacement of spaces based on the spatial program included in the report. This will provide for the facility's needs and to meet current inmate programming, Americans with Disabilities Act (ADA), American Correctional Association (ACA) standards and technology advancements.

The remaining existing 19,438 GSF single-story Dakota Building to be mostly preserved and will have exterior upgrades including new roofing, fascia, gutters, downspouts, new windows and doors and perimeter drain tile with foundation waterproofing. The site work will include repaving the existing parking and recreation areas, regrading to provide new ADA ramps and sidewalks. The interior upgrades will include internal perimeter drain tile and sump system and finishes maintenance items.

#### This predesign document has been prepared for the following purposes:

- Identifying all project needs and costs to serve as the basis for funding requests.
- To be the source for future decision making during the development of the project by serving as the road map for future development.
- Provide agency management with the information they need to effectively communicate project details to legislators and stakeholders.
- Communicate essential project objectives with factual data before the actual design process commences or other decisions are made.
- Explore alternatives that had not been previously considered.
- Identify potential cost savings.
- Identify and minimize risks associated with the project.
- Analysis of the best construction delivery method.
- Analysis of funding alternatives best suited for the project.
- Provide a basis for a Request for Proposal (RFP) for design services and in negotiating the future design contract.
- Provides instructions to the future architectural and engineering design firms and provides them the foundation on which to base their design.



## **SECTION 1.A - Project (Executive) Summary Statement**

PROJECT TITLE: Predesign for Dakota Building at MCF Faribault

Location: Faribault, Minnesota

#### **SCOPE**

The project will include the building demolition of the dilapidated masonry 3,249 GSF two-story portion of the building in its entirety and construct a new single-story structure of 4,383 GSF to provide for replacement of spaces based on the spatial program included in the report. This will provide for the facility's needs and to meet current inmate programming, Americans with Disabilities Act (ADA), American Correctional Association (ACA) standards and technology advancements.

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#### **COSTS**

New Space: 4,383 gsf Construction Cost: \$2,155 million

Remodeled Space: 19,438 gsf Construction Cost: \$3,132 million

Total Construction Cost: \$4,378 million Total Project Cost: \$7,987 million

#### **FUNDING SOURCE(S)**

State Funding Request: \$7,987 million Sources for Remainder of Funding: None

The State Legislature previously funded \$954,000 for design fees in the 2020 budget process.

This request is for the construction component costs only.

#### **OPERATING COSTS**

The staffing quantities remain the same as they currently are for the existing building. No cost decrease or increase is expected.



Although hard to quantify potential maintenance and operating costs, and depending on the B3 requirements deemed necessary for this combination new/remodeled building, we would expect less maintenance costs on the upgraded single-story portion; and significant energy savings on the new addition compared to the old two-story uninsulated portion being demolished.

#### **SCHEDULE**

Site Acquisition:

Project Funding:

None required
July 2022

Bidding: July – August 2022

Award Negotiation: September – October 2022 Construction: November 2022 – May 2024

Mid-point of Construction:

Close-Out:

Occupancy:

July 2023

June 2024

July 2024

## SECTION 1.B - Project Data Sheet - New Building (or New Work)

Name of Project: Predesign for Dakota Building at MCF Faribault

Agency/Organization: State of Minnesota, Department of Administration

Project/Building Location: 1101 Linden Lane, Faribault, Minnesota 55021

**Building Occupancy Type** 

Primary Space Types: Housing, Programs and Support

Type of Construction: I-B

**Building Size** 

Number of Stories: 1

Square Feet per Floor: First Floor: 23,821 gsf

Total Square Feet: 23,821 gsf

Space Efficiency: Usable v. Circulation/Mechanical, etc. - 62%

Total Building: 248 gsf/resident

Site Size: Number of Acres: 4.5 Acres

Parking: 18 spaces (includes 9 street parking stalls)

Roofing Type: Asphalt shingles on sheathing and wood truss joists.

Exterior Wall Type: Solid wythe masonry walls with brick veneer at the demolished building portion and insulated masonry cavity wall with face brick at the new addition.



Interior Wall Type: Solid plaster partitions from the original building and stud frame and gypsum at new remodeled walls.

Structural System Type: The existing North Wing will be demolished above the first-floor slab elevation (the first floor supported concrete slab & basement space below will be retained). New construction will consist of continuous concrete footings at the perimeter of the new building which lies outside the existing footprint. The new roof structure will be gabled wood trusses spaced at 24-inches spanning to exterior wood bearing walls. The existing gabled roof profile will be extended north to tie into the new roof.

Structural work at the existing building will consist of new concrete retaining walls at the current ramped openings to the basement on the south & west sides of the building.

Mechanical System Type: Space climate control during the summer via a high efficiency air cooled DX condensing unit matched to the indoor air handler. Space heating during the winter via a hydronic heat exchanger connected to the existing campus wide high-pressure steam system.

Fire Protection Description: Automatic wet type sprinkler system.

Electrical System Type: 208/120 volt 3 phase to feed mechanical loads, lighting, and convenience receptacles.

Technology Systems: The building will be provided with an extension of the existing voice/data system.

Life Expectancy of New Work: 25 - 50 years if properly maintained.

Costs: (Enter costs that are included in the project; if not included, indicate N/A.)

Total Project Cost: \$7,987,468

Predesign Cost: \$0

Design Cost (including B-3): \$0 Site Acquisition Cost: N/A

Site Improvements Cost: \$820,000

Parking Structure Cost: N/A Building Cost: \$4,634,000

General Condition's: Included in Bldg. Cost

Surface Parking Cost: Included in Site Construction Contingency: \$463,400 Owner Contingency: \$738,372

Project Management Cost: \$55,378

Furniture, Fixtures, Equipment, Signage: \$31,318

Relocation Cost: N/A

Phasing Cost: Included in Bldg. Cost SAC/WAC/Permits/Survey: \$150,000

Building Permit/Plan Review: Included in Building Cost

Insurance/Bonds: Included in Building Cost Technology Cost: Included in Building Cost

Commissioning: \$50,000 Inflation Cost: \$584,000

B-3 Construction costs: Included in Building Cost Hazardous Materials Abatement Cost: \$75,000

CM Preconstruction Fees: \$50,000

Construction Management Fees: \$336,000

State Funding Amount: \$7,987,468
Other Funding Source(s) Amount(s): N/A

NOTE: Cost Estimates are based upon the information above.



#### **MISSION**

The vision of the Minnesota Department of Corrections is to contribute to a safer Minnesota.

The Mission of the Minnesota Department of Corrections is to reduce recidivism by promoting offender change through proven strategies during safe and secure incarceration followed by effective community supervision.

#### STRATEGIC PLAN

The current Strategic Plan for the Minnesota Department of Corrections includes the following values and goals.

#### **Department Values**

- Safety: By supporting a safety-conscious environment for staff and offenders.
- Research-Supported Practice: By providing offender programs and interventions based on evidence-based principles.
- Open and Transparent Communication: By ensuring that information is shared with staff, offenders and stakeholders.
- Commitment to Employee Growth and Development: By fostering employee diversity, collaboration, initiative and opportunities for growth knowing that our strength lies in our skilled and talented employees.
- Culture of Professionalism: By committing to a high standard of ethics, behavior and work activities.
- Organizational Development: By providing an environment that encourages strong quality results through teamwork, technology, training and process improvement.
- Collaboration: By facilitating cooperative interaction with staff and justice partners, building consensus to support our common interest of reducing recidivism.

#### **Department Goals**

- Provide effective correctional services
- Hold offenders accountable
- Change offender behavior
- Provide restorative services for victims
- Engage staff and promote workplace safety

#### **OPERATIONAL PLAN**

To demolish a two-story portion of the building that has suffered extensive long-term water infiltration damages, and replace it with programming, offices and support functions. The addition and remodeling of the existing one-story building will enable to the State to continue utilizing the facility for housing offenders.



#### STATUTORY REQUIREMENTS

Meet State statutory requirements, Department of Corrections (DOC) policy and procedures, and American Correctional Association (ACA) operational and physical plant standards for offender housing.

## **ALTERNATIVE ANALYSIS**

Alternative options were explored to identify various methods for dealing with the existing building from renovation to building completely new.

## **FACILITY CONDITION ASSESSMENT (FCA)**

Not applicable.



#### **COMPREHENSIVE/MASTER PLAN**

The facility believes the siting and construction character of this proposed building supports the overall vision and intent of the MCF Faribault comprehensive master plan.

#### SITE SELECTION

The existing one-story building remains with the attached two-story building demolished and replaced with a one-story addition.

#### HISTORIC DOCUMENTATION

The project is not located in a historic district and does not involve disposal of buildings on the National Register of Historic Places.

#### **DISPOSAL OF STATE-OWNED BUILDINGS**

The project involves the partial disposal of State-owned buildings for the demolished two-story building.

#### **STAKEHOLDERS**

- The Public
- Minnesota Department of Administration, Real Estate and Construction Services (RECS)
- The Commissioner of Corrections
- Minnesota Department of Corrections Facilities Division
- MCF-FBT Administration, Operations, Security, Health Services, and Maintenance Staff
- Minnesota County Law Enforcement
- Offenders

#### **IMPACTS**

#### **OPERATIONS**

The staffing quantities remain the same as they currently are for the existing building. No cost decrease or increase is expected.

Although hard to quantify potential maintenance and operating costs, and depending on the B3 requirements deemed necessary for this combination new/remodeled building, we would expect less maintenance costs on the upgraded single-story portion; and significant energy savings on the new addition compared to the old two-story uninsulated portion being demolished.



#### **OPERATIONAL BUDGET**

No cost decrease or increase is expected for staffing.

Costs per Year:

No cost decrease or increase is expected.

The utility cost savings are expected to be significant on the new addition compared to the old two-story uninsulated portion being demolished.

#### **FUNCTIONAL IMPACTS**

Since the existing 96 bed unit would remain in place outside of the perimeter fence and the programs being replaced with the new building addition in the same location, movement would continue as it currently does.

Offender crews will be handled much the same as they are currently. Offenders will leave the unit and report to the Laundry where they will meet the crew leader. Upon return to the facility, offenders will return to the Dakota Building at the south entrance where a pat down search will be conducted. After searches are complete the offenders will return to their living unit.

The offenders would have Visiting in the Sierra Building like they currently do.



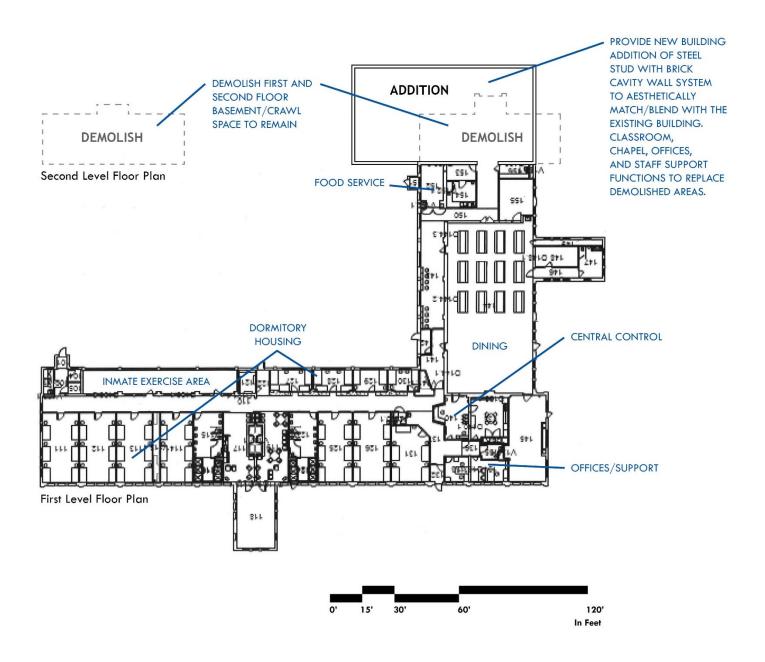
## SECTION 4.A - ARCHITECTURAL/ENGINEERING (A/E) PROGRAM

## **PROGRAM**

Space/Area	<u>Size</u>	<u>Remarks</u>
Transition Office	150 sf	
Case Manager Office	150 sf	
Lieutenant Office	150 sf	
Multi-Purpose Room	600 sf	24 inmates x 25 sf/per inmate
Multi-Purpose Storage	30 sf	, .
Chapel	600 sf	24 inmates x 25 sf/per inmate
Chapel Storage	30 sf	, .
Laundry	800 sf	4 commercial washers, 4 commercial dryers
IT Room	200 sf	
Toilet – Staff	50 sf	ADA compliant
Toilet – Inmate	50 sf	ADA compliant
Subtotal	2,810 sf	
Grossing factor 35%	<u>954 sf</u>	
Subtotal	3,764 sf	
Major Circulation	365 sf	
Mech/Electrical	<u>365 sf</u>	
Total Addition	4,383 sf	3,249 sf demolished



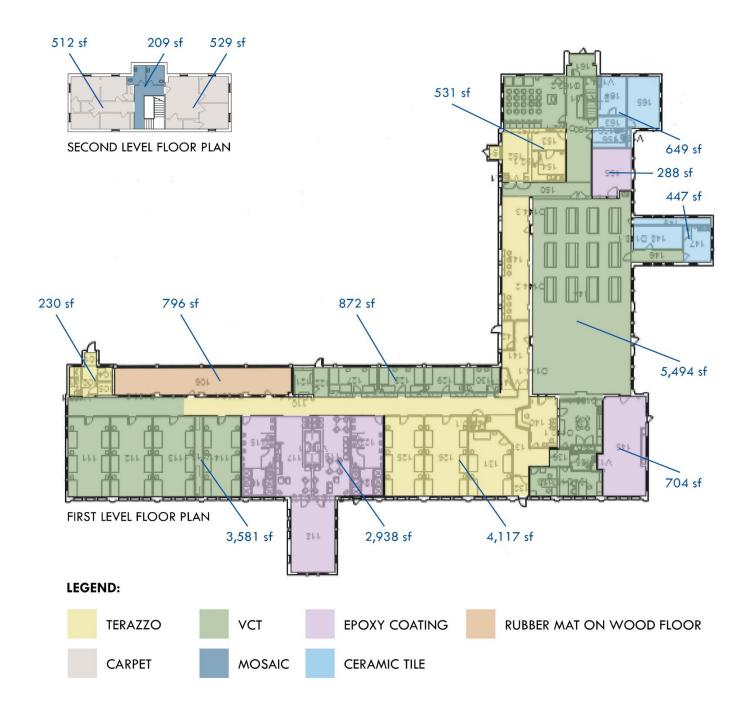
Demolish the dilapidated masonry 3,249 GSF two-story portion of the building in its entirety and construct a new single-story structure of 4,383 GSF to provide for replacement of spaces based on the spatial program included in the report. This will provide for the facility's needs and to meet current inmate programming, Americans with Disabilities Act (ADA), American Correctional Association (ACA) standards and technology advancements.



LEVEL 1 FLOOR PLAN

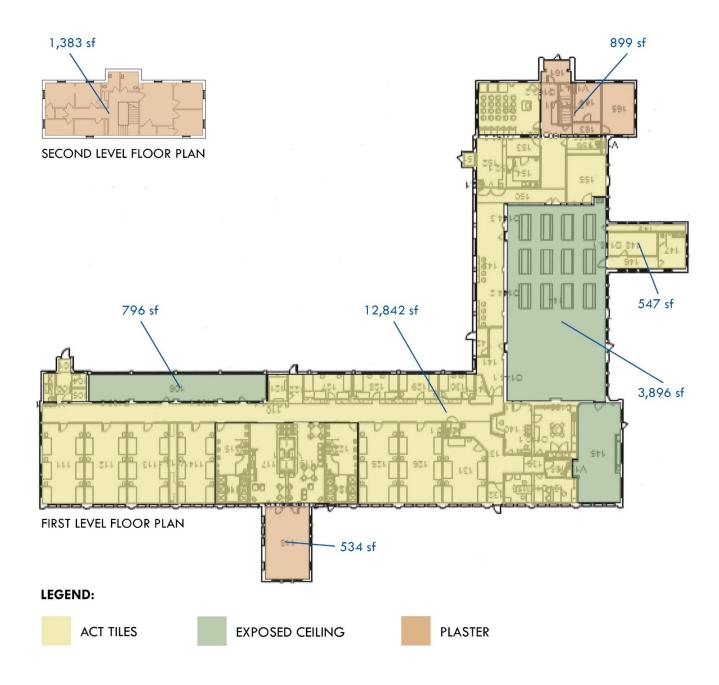


## Floor Types:



Note: Square footages include area of walls within the calculated area

## Ceiling Types:



Note: Square footages include area of walls within the calculated area



## **SECTION 4.B – PRECEDENT STUDIES**

The information contained within this Predesign included further development of the Dakota Building Study for the Minnesota Department of Corrections, RECS Project No. 78FA0070 issued June 28, 2019.

Klein McCarthy Architects used the information developed in Predesign For 96-Bed Minimum Housing Unit at MCF – Red Wing, RECS Project No. 78RW0028 revised and issued October 27, 2017. To provide the same comparable 96-Bed minimum security housing facility, the Total Estimated Construction Cost was \$12,214,000 with an estimated Total Project Cost of \$16,199,000 (all costs associated with the project). The Project Cost inflated to the same midpoint of construction as MCF Faribault would be \$27,991,272.

Klein McCarthy Architects also used the information developed in Predesign For 96-Bed Minimum Housing Unit at MCF – Stillwater, RECS Project No. 78SW0048 revised and issued October 30, 2017. To provide the same comparable 96-Bed minimum security housing facility, the Total Estimated Construction Cost was \$10,928,000 with an estimated Total Project Cost of \$14,622,000 (all costs associated with the project). The Project Cost inflated to the same midpoint of construction as MCF Faribault would be \$25,266,276.

Both of the Predesigns at MCF Red Wing and MCF Shakopee contained similar characteristics of 96 beds, programs, and support for new precast constructed facilities. The largest difference was that they were new facilities compared to an addition and remodeling of the MCF Faribault facility at a Project Cost of \$7,987,468.



## SECTION 4.C – TECHNOLOGY PLAN AND TELECOMMUTING PLAN



February 4, 2020

Todd Peterson, PE, LEED AP

Ericksen Ellison & Associates, Inc 305 2<sup>nd</sup> Street NW, Suite 105 New Brighton, MN 55112

Todd,

RE: Information Technology Plans

#### Project #78FA0071 - MCF Faribault Dakota Building Predesign

Minnesota statutes require state agencies to prepare information technology and telecommuting plans when proposing capital investments in office space. Office space requests include a new building (new construction or acquisition of an existing building), renovation/remodeling and/or relocation. The Office of MN.IT Services is required to review and approve these plans.

I have reviewed the pre-design materials for this project and find your Technology Plans are needing a little adjustment for this project. The building needs technology Modernization. All data cable runs should be dual CAT6 to all locations and should have new copper and fiber run to it from the campus core. We conditionally approve your plan. The goal of the Predesign Approval is to ensure all technology needs for the site are met, and budgeted. As part of the Approval we would like a monthly scheduled meeting to review the progress of the project once it begins. (Via Conference Call or WebEx) In the event you have information that can't be reviewed remotely an in-person meeting should be scheduled. You can arrange the meeting with me anytime.

Minnesota IT Services Reserves the right to rescind its approval if the project changes. Our goal is to make sure the appropriate level of technology is applied to the building, and technology continually changes, therefore we want to be an active part of planning.

If you have any questions concerning this memorandum, or the requirements for these plans, please contact me.

Sincerely,

Mark Stein

**Network Facilities Infrastructure** 

651-201-1055

**Equal Opportunity Employer** 



## **SECTION 4.C.1 – TELECOMMUTING PLAN**

The facility does not anticipate that telecommuting will be relevant to the staffing of this facility.

## SECTION 4.D – SUSTAINABILITY, ENERGY CONSERVATION, AND CARBON EMISSIONS

#### SUSTAINABILITY AND ENERGY EFFICIENCY

#### SUSTAINABILITY AND HIGH PERFORMANCE

Minnesota Statute §16B.325 requires that the State's Sustainable Building Guidelines be applied.

Summary: B-3 applies to addition as it is larger than 10,000 GSF. The minor renovations to the existing building are not enough to trigger B-3 as they do not include replacement of the mechanical, ventilation, or cooling systems.

#### ALTERNATIVE AND RENEWABLE ENERGY

The following are state statutes having requirements for providing alternative and renewable energy sources.

#### §16B.32 ENERGY USE

Subdivision 1: Alternative Energy Sources

New construction or a renovation of 50 percent or more of an existing building or its energy systems must include designs which use active and passive solar energy systems, earth sheltered construction, and other alternative energy sources where feasible.

Summary: Renewable energy as mandated by State statutes will be provided for this building.

Subdivision 2: A state agency that prepares a predesign for a new building must consider meeting at least two percent of the energy needs of the building from renewable sources located on the building site defined as solar power or wind power. This two percent will be based on the energy needs for the newly constructed addition as the rest of the building will remain largely untouched.

#### §16B.323 SOLAR ENERGY IN STATE BUILDINGS

#### Solar-thermal:

One of the solar power options is solar water heating. This type of system has solar panels installed and there is a loop of fluid that runs through these solar panels and is heated by the sun. The heat from this fluid is then transferred in a heat exchanger where domestic water is heated for use as a part of the building's plumbing system. This system would have hot water storage and steam-to-water heat exchanger as a supplement heat source when sunlight is unavailable.



Summary: The MCF Faribault facility generates domestic hot water at the central boiler plant utilizing a series of steam-to-water heat exchangers. The Dakota building does not currently have a standalone domestic water heating system, and none is planned on being added as part of this project. The existing campus wide domestic water heating system has more than enough capacity for the new fixtures added as part of this project. As there is no local domestic water heating, adding solar thermal water heating to this building to achieve 2% of the building annual energy usage is not feasible.

#### Wind:

Wind energy is a form of solar energy. Wind energy (or wind power) describes the process by which wind is used to generate electricity. Wind turbines convert the kinetic energy in the wind into mechanical power. A generator can convert mechanical power into electricity. The relatively small build out area makes wind tower units much larger than needed for 2% savings and also much too costly for our project budget.

Summary: Current equipment costs and utility rates put a simple payback for wind turbine electrical generation for 2% of the building annual energy usage at greater than 90 years. This option is therefore not feasible for this project.

#### Photovoltaic:

The other option for solar is a photovoltaic system (solar electrical). This system can be installed on the roof of the existing building and be used to provide electricity that is fed into the buildings electrical system reducing the need for electricity purchased from the electric utility.

Summary: Current equipment costs and utility rates put a simple payback for photovoltaic electrical generation for 2% of the building annual energy usage at greater than 50 years. This option is therefore not feasible for this project.

§16B.326 HEATING AND COOLING SYSTEMS; STATE-FUNDED BUILDINGS
 The project proposer must include a study for geothermal and solar thermal applications as possible uses for heating or cooling for all building projects subject to a predesign review that receive any state funding for replacement of heating or cooling systems.

Summary: The existing building is heated via steam from the main high-pressure natural gas boilers located at the facility. Rather than providing a new steam-to-water heat exchanger for heating and DX condensing unit for cooling, the systems for the new addition could be replaced with the ground source heat pump system. Building energy modeling of the proposed heating/cooling system vs a ground-source heat pump system indicates an annual savings of  $\sim$ \$4,000. Based on the estimated cost increase to utilize a ground-source heat pump system, the payback is over 42 years. This option is therefore not feasible for this project.



## SECTION 4.E – OPERATIONS AND MAINTENANCE REQUIREMENTS

The staffing quantities remain the same as they currently are for the existing building. No cost decrease or increase is expected.

The utility costs are expected to be slightly higher than the existing building. This is due to the inclusion of dehumidification to the lower level. The increase in energy usage will be offset by longer life for the building and the equipment/piping installed in the lower level.

## **SECTION 4.F – STATUTE REQUIREMENTS**

See Appendix 4b at the end of Section 4 for a table of statute requirements for capital projects that receive state funding and that are applicable to this Project.

## **SECTION 4.G – SPECIALTY REQUIREMENTS**

The following criteria include requirements for the facility space build out.

#### **ARCHITECTURAL**

#### **BUILDING STRUCTURE**

The existing North Wing will be demolished above the first-floor slab elevation (the first floor supported concrete slab & basement space below will be retained). The new roof structure will be gabled wood trusses spaced at 24-inches spanning to exterior masonry bearing walls. The existing gabled roof profile will be extended north to tie into the new roof.

#### **SOIL CONDITIONS**

Soil conditions are assumed to be conducive to a continuous perimeter footing approach. If the project moves forward, the State is advised to retain a geotechnical firm to investigate and confirm the assumption.

#### **FOUNDATIONS**

New construction will consist of continuous concrete footings at the perimeter of the new building which lies outside the existing footprint.

#### SLAB-ON-GRADE

Building floor slabs shall be 4 inch poured concrete slabs-on-grade reinforced with 6" square steel W1.4xW1.4 welded wire fabric or fiber mesh.

#### **EXTERIOR WALLS**

The building exterior walls of the new addition shall be comprised of architectural brick veneer cavity wall with masonry backup to match the aesthetic of the existing building.



#### INTERIOR WALLS

No load bearing interior walls are anticipated. Interior walls shall consist of steel stud walls with abuse-resistant gypsum board sheathing.

#### **BUILDING LATERAL SUPPORT**

Lateral load resistance for the addition is provided by exterior concrete masonry shear walls.

#### **BUILDING ENVELOPE**

#### Exterior walls

- Masonry or stone veneer cavity walls
  - -- 4" face veneer
  - -- 2" air space
  - -- 3" extruded polystyrene rigid insulation
  - -- 8" concrete masonry units
  - -- Standard or abuse resistant gypsum board

#### **Roof Assemblies**

- Roof
  - -- Gabled wood trusses
  - -- Blown roof insulation
  - -- Abuse resistant gypsum board
- Gutters: Prefinished galvanized steel gutters and downspouts.

#### **Exterior Fenestration**

- Aluminum entrance and windows
  - -- Entrances: Kawneer AA 425 aluminum storefront framing
  - -- Doors: Thermally broken hollow metal doors and frames
  - -- Windows: Kawneer NX-300 Series Thermal Windows

#### **INTERIORS**

#### Interior Partitions

- Metal stud interior partitions
  - Standard gypsum board at office areas.
  - Abuse-resistant gypsum board at resident areas, corridors, and program areas.
  - -- Cement board with skim coat at restrooms, and janitor closets.

#### Interior Openings

- Hollow metal doors and frames
- Flush wood doors
- Door hardware in staff areas
  - -- Commercial hardware
  - -- Low-energy automatic door operators at main entrance doors.



- Door hardware in resident areas
  - -- Commercial hardware
  - -- Remote electronic monitoring and control

#### Interior Finishes and Equipment

- Exposed concrete floor with sealer in storage, mechanical and electrical rooms.
- Interior architectural casework
  - -- Solid surface countertops
  - -- Plastic laminate cabinets
- Ceramic tile on walls and floors in restrooms and showers (6' height in restrooms).
- Acoustical ceilings in staff areas, multi-purpose rooms and corridors.
- Abuse-resistant gypsum board in laundry and inmate toilet room.
- Structure to remain exposed at mechanical and electrical areas; paint typ.
- Resilient flooring
  - -- VCT in resident corridors, multi-purpose rooms, laundry and IT area.
  - -- Vinyl base at all rooms.
- Carpet tile in offices and chapel room.

#### **Exterior Improvements**

- Grass seeding throughout disturbed site.
- Landscaping at main building entrance.

#### **CIVIL**

#### DEMOLITION AND REMOVALS

The scope of building demolition will be the removal of the two-story building located on the north side of the east wing of the Dakota Building. The basement of the two-story building will remain since it is a junction point for several mechanical piping systems. The Pawnee Building located to the north of the Dakota Building has already been demolished in its entirety.

The basement of the Dakota Building has a history of groundwater intrusion. Approximately 1,030 lineal feet of perimeter drain tile system trenched in along the outside perimeter of the Dakota Building is proposed. Trenching approximately 10-feet wide will disturb approximately 6 stoops, 165 square feet of existing concrete sidewalk, 6 square yards of bituminous pavement, and 11,500 square feet of turf restoration. The drain tile excavation shall be backfilled with clean coarse sand (less than 50% passing the No. 40 sieve and less than 5% passing the No. 200 sieve). We estimate approximately 860 cubic yards of granular backfill will be required for the perimeter drain tile system.

The basement floor of the existing building and the basement of the two-story building will need to be removed for an under slab drain tile system. BKBM anticipates 3-rows of under slab drain tile pipe that is spaced at approximately 20-feet apart be placed under the basement floor slab. 12-inches of clean crushed ¾-inch drainage rock, geotextile separation fabric, granular sand cushion, and a vapor barrier shall be placed prior to pouring a new basement floor slab.



Other site demolition will include approximately 230 square feet of concrete retaining wall removal and approximately 860 sq. ft. of concrete pavement removal at the sloped ramps to the basement. Approximately 440 sq. ft of existing concrete sidewalk will need to be removed so that a new 830 sq. ft. ADA code compliant sidewalk can be constructed from the parking lot to the southeast ingress/egress door.

All debris is to be hauled offsite for disposal or sorted and recycled. All voids are to be filled and compacted with granular borrow, graded, and furnished with sod.

#### EARTHWORK, EXCAVATION AND GRADING

Erosion control silt fence or bio log sediment control devices are to be installed around the perimeter of the proposed scope of work to limit sediment from leaving the site and to fulfill NPDES permit requirements. The two existing ramps that access the basement will be removed and backfilled with clean coarse sand (less than 50% passing the No. 40 sieve and less than 5% passing the No. 200 sieve) that is suitable as backfill against the basement foundation wall. We estimate approximately 100 cubic yards of backfill material will be required. This is the same material used as backfill along the perimeter foundation drain tile system.

Existing topsoil within the grading limits encompassing the building and any service drives, sidewalks, and utility installations shall be removed and stockpiled for later use. Exterior finished grading will be required around the new building area, perimeter drain tile excavation, and paved areas. Excavations will be required for footings and foundations, and any direct-bury utilities for the proposed building addition. All fill areas will require either imported granular borrow or soil salvaged from site grading activities if approved by the Geotechnical Engineer. The stockpiled topsoil may be utilized for finish grading. Disturbed areas are to have 6" of topsoil placed and be furnished with sod.

#### **CONCRETE AND BITUMINOUS PAVING**

Concrete sidewalks disturbed due to perimeter drain tile trenching will be restored. A new ADA code compliant sidewalk will also be constructed. Concrete sidewalks connecting the proposed entrances and exits are to be 4" of concrete over 4 inches of Class 5 aggregate base. Approximately 1,115 square feet of concrete sidewalk is anticipated.

A new 7-inch thick by 80-foot long concrete valley gutter across the driveway into the parking lot is needed. Lilac Lane drains from northwest to southeast, but the grades in the east gutter of the road and driveway intersection are flat. Ponding currently occurs at this location and the bituminous pavement is showing signs of distress due to ponded water. A new valley gutter placed across the intersection will provide better drainage of this intersection and carry stormwater runoff to the south.

The driveway, parking lot, basketball court, and the restoration of disturbed bituminous paved roadways, likely due to utility trenching, will be repaved with a pavement section consisting of two courses of 1.5-inch thick bituminous pavement (3-inches of bituminous pavement) over 8-inches of Class 5 aggregate base. Approximately 2,800 square yards of new bituminous pavement is required.



#### SITE UTILITIES

The new building addition will need to investigate potential utility conflicts for natural gas, sewers, domestic water, electrical, low voltage telephone/data and security lines. It is our understanding that new utilities will be direct buried. Removal and relocation of such existing utilities will require careful consideration of how services are maintained to surrounding buildings during construction, and how to provide new permanent infrastructure connections to the new and existing buildings. It is anticipated that new sanitary sewer and water service for the new building addition can be extended from the existing Dakota Building.

To the best of our knowledge storm sewer does not exist within the site. Stormwater runoff generally sheet flows to the southeast. An existing infiltration or filtration stormwater management pond is located south of the site that at least a portion of this site drains to. The remaining site drains to Lilac Lane. It is unclear as to whether Lilac Lane also outlets to this existing pond.

Based on a CAD map of the site, an existing 10-inch steam, 5-inch condensate, 5-inch hot water, and a 3-inch cold water run through the basement of the building to be demolished and the existing Dakota Building. It is our understanding that the basement area that currently exists will remain.

With the removal of the Pawnee Building and the two basement ramps, it is anticipated that the square feet of proposed impervious of the site will not likely exceed existing conditions. Still, the site's stormwater runoff for the new improvements will need to meet MN B3 requirements. B3 stormwater requirements includes rate controlling the 2-year and 10-year events to pre-settlement conditions and the 100-year event to existing conditions. The site must also allow for retention of the 1.1-inch rain event, resulting in no runoff from the site. Also required is the site treat the 2-year 24-hour rain event for 80% total suspended solids reduction and 60% total phosphorous reduction. This will likely be achieved through infiltration/filtration.

Additional requirements for stormwater management will need to be verified with the local authorities having jurisdiction, although it is likely MN B3 requirements are more stringent than local regulations. For the purposes of this study, it is assumed that all roof drainage will be directed through roof gutters and downspouts. It is anticipated that overland flow will be directed toward Lilac Lane and into the existing infiltration/filtration pond located south of the site.

### **MECHANICAL**

#### DEMOLITIONS AND REMOVALS

The scope of building demolition will include the removal of the two-story portion of the Dakota building. The lower level of this area will remain undisturbed as it serves as a junction point for multiple mechanical piping systems that serve the remainder of the facility.

All of the domestic water piping, sanitary sewer piping, hydronic supply/return piping, and steam/condensate piping serving the existing two-story portion of the building will be demolished back to the appropriate mains and capped. All of the plumbing fixtures within the two-story portion of the building will be demolished. The ductwork, diffusers, VAV boxes and associated controls within the two-story portion of the building will be demolished. The air hander serving this space (AHU-3) will remain in place as it is in another part of the Dakota building that will not be demolished.



Within the lower level of the entire building, all of the insulation shall be removed from the remaining domestic hot/cold water piping, hydronic supply and return piping, and the steam/condensate piping. Over the years, moisture has collected in the insulation and ruined it.

#### FIRE PROTECTION

The new addition to the building will be provided with fire protection in all spaces in the form of a wet type sprinkler system. The existing fire suppression system will be extended to provide this service.

The existing fire suppression system serving the work-out room will be modified to accommodate the remolding of that space. Due to the potential for low temperatures in the work-out room, the heads serving this area will be dry type heads to prevent freezing.

For all other spaces, the piping will remain full of water. Fully concealed type fire sprinkler heads with white disc covers will be installed in rooms with ceilings. Brass upright pendant type fire sprinkler heads will be installed in rooms without ceilings (equipment rooms). Tamper-resistant institutional style heads will be used in inmate areas with low ceilings.

Piping will be black steel. Pipes 2" and smaller will be schedule 40 thickness, and larger pipes will be schedule 10. The fire sprinkler system is required to meet applicable codes (NFPA 13, and the Minnesota Fire Code) and local rules and regulations.

#### **PLUMBING**

The existing domestic hot and cold-water systems will be extended to provide service to the new plumbing fixtures in the new building addition. Most of this piping will be routed in the lower level of the building. The inmate restrooms will be provided with stainless steel security style toilets, urinals, and lavatories. Security style fixtures will be automatic hands-free style. Staff restrooms will be fitted with porcelain toilets and lavatories. Staff fixtures will be automatic hands-free style. A mop sink will be provided in the janitor closet. Floor drains will be provided throughout the building where water is used, or extensive cleaning/cleanup will be needed. Low flow fixtures will be used where practical.

The existing sanitary sewer piping serving the existing shower rooms will be modified to increase the slope and improve drainage flow. This piping is exposed in the lower level of the building.

Two new 3" floor drains and associated venting will be added to the existing kitchen spaces.

All of the existing domestic hot, cold, and recirculation piping within the lower level of the building will be reinsulated and relabeled. All of this insulation will be flexible elastomeric (Armaflex) to prevent future issues with wet insulation.

Under work of others, a new drain tile system will be installed underground in the lower level of the building to collect ground water for removal. The mechanical contractor will provide a new duplex pump and sump system in the lower level of the building to remove this water. The pumps will be capable of approximately 50 gpm each and be fully redundant. A new 450-gallon fiberglass sump will be provided for collection of the ground water. The pumps will be provided with a control panel that will be integrated into the facility wide building automation system.



All new sanitary waste and vent piping shall be cast iron. All new domestic water piping shall be copper. All plumbing systems will be designed to meet the current version of the Minnesota Plumbing Code and the SB2030 requirements for water conservation.

#### **HVAC**

The new building addition will be climate controlled during the summer to maintain an indoor temperature range between 75 and 78°F with a maximum relative humidity of 58% RH. During the heating season the new building addition will maintain an indoor temperature range between 72 and 76°F. Humidity will not be controlled during the heating season (no humidifiers will be provided). The mechanical system will be designed to limit ambient sound levels to NC 35 in the occupied areas. The minimum outdoor air intake will be in accordance with ASHRAE 62.1. The indoors will be slightly pressurized compared to the outdoor to keep infiltration to a minimum.

Within a mechanical room a pair of redundant steam-to-water heat exchangers will convert steam provided by a facility wide system into hot water for heating. Each heater would have an output capacity of 100 MBH. One heat exchanger will be fully redundant. The hydronic heating system will be variable volume with redundant pumps to circulate heating water throughout the building addition.

A single variable volume air handler (approximately 5,000 cfm) will be installed within a mechanical room to provide heating and ventilation to the spaces through downstream VAV boxes with booster heating coils. This air handler will utilize hydronic hot water for heating and DX for cooling. A new 10-ton condensing unit will be installed on grade near the new mechanical room. Refrigerant piping will link the new condensing unit with the new air handler. Ductwork will extend up through the roof for intake and relief air.

All of the restrooms and janitor closets will be provided with exhaust as required by code. Exhaust will be accomplished via exhaust fan(s) located on the roof.

A new variable volume dedicated outside air unit will be provided for ventilation and dehumidification of the entire lower level of the existing building. The unit will be capable of bringing in 100% outside air and discharging it to the space at 55°F during the heating season. The unit will have a sensible only energy recovery section to ensure code compliance and save energy. The unit will be capable of approximately 10,000 cfm. A system of ductwork will be installed throughout the lower level to ensure even distribution of supply and return air. This dedicated outside air unit will utilize hydronic hot water for heating. Ductwork will extend to new louvers in the outside wall for intake and relief. To ensure that dehumidification can happen year-round, dehumidifiers will be added to the lower level. Six indoor commercial dehumidification units each capable of removing 165 pints of water per day each (Quest Dual 165 or similar) will be installed throughout the lower level. Condensate discharge from these units will be routed to sanitary sewer.

Two new hydronic unit heaters each capable of approximately 12 MBH will be provided to heat the remodeled work out space. These units will be connected to the existing hydronic supply and return systems in the building. A new sensible only energy recovery unit will be installed to provide the code required ventilation for this space. This unit will be capable of providing approximately 300 cfm to the space year-round. A hydronic coil will be provided in this unit to ensure discharge air temperatures of  $75^{\circ}$ F during the heating season.



All of the existing steam, condensate and hydronic piping within the lower level of the building will be reinsulated and relabeled. Insulation on the hydronic piping will be flexible elastomeric (Armaflex) to prevent future issues with wet insulation. Insulation on the steam and condensate piping will be fiberglass with a full pvc jacket to limit future issues with wet insulation.

All HVAC systems will be designed to meet the current versions of the Minnesota Mechanical Code, Minnesota Energy Code, and the SB2030 requirements for energy conservation.

#### **BUILDING AUTOMATION & METERING**

The existing facility wide building automation system will be extended to the new building to provide control and monitoring of the new equipment. The automation system will also include metering of the energy usage systems to meet the SB2030 requirements. This metering will include domestic cold water, domestic hot water, steam/condensate, and electricity.

#### **ELECTRICAL**

#### **POWER DISTRIBUTION**

The existing electrical service is in good condition. The service has adequate capacity for current and planned loads. Most of the building panelboards are in good condition and will remain. There are two existing panelboards located on the wall common with the two-story portion of the building. These panelboards must be removed to demolish the two-story portion and new panel boards will be installed in the new addition and connected to the existing building service.

The new addition will have receptacles installed throughout the addition and be connected to the new panelboards.

#### **EMERGENCY POWER**

The existing emergency generator G6 located near the Power Plant building provides code required emergency power to the Dakota Building and a few other buildings. This system is in good condition and will remain. Existing ATS and emergency panelboards in the building will remain. New emergency circuits will be installed in the new addition to power emergency lights.

#### LIGHTING

Lighting in the existing building is adequate and in good condition. Some lighting will need to be replaced in the Inmate exercise area to allow for insulation. New LED lighting will be provided in the new addition with light levels per current IESNA guidelines. New lighting controls in compliance with current Minnesota Energy Code and facility security requirements will be provided.

#### FIRE ALARM SYSTEM

The existing Siemens fire alarm panel will remain, and new detectors and notification devices will be provider per code in the new addition.



#### **VOICE/DATA SYSTEM**

Existing building is connected to the campus with copper and multi-mode fiber optic cables. The fiber optic infrastructure will be upgraded with 48 strands of single mode fiber optic cable installed in the existing underground conduit and tunnel system back to the Birch Building. Install and terminate at the building main communications room. Provide 24 strands of single mode fiber between the main communications room and new IT room in the addition. Room shall contain equipment rack with fiber optic patch panel and cat 6 patch panel to feed addition. New horizontal category 6 cable will be installed from the new IT room to voice and date outlet located in the new addition. Provide 2 runs of cable to each outlet in all offices, conference rooms, activity rooms, etc.

#### **SECURITY SYSTEMS**

The existing building camera system and Genetec recording system will remain. New cameras will be provided throughout the new addition. Cameras in the inmate exercise area will be relocated to allow for new insulation.

#### **ALTERNATIVE & RENEWABLE ENERGY**

Subdivision 1: This project does not involve remodeling of an existing building, so this does not apply.

Subdivision 2:

General: Using a detailed energy modeling software, the predicted annual energy consumption for newly added portion of the building is 284,679,000 BTU/yr., 2% of this is 5,693,000 BTU/yr., which equates to 1,669 kwh/yr.

Solar Thermal:

The MCF Faribault facility generates domestic hot water at the central boiler plant utilizing a series of steam-to-water heat exchangers. The Dakota building does not currently have a standalone domestic water heating system, and none is planned on being added as part of this project. The existing campus wide domestic water heating system has more than enough capacity for the new fixtures added as part of this project. As there is no local domestic water heating, adding solar thermal water heating to this building to achieve 2% of the building annual energy usage is not feasible.

Wind: Given the location of the facility in a river valley and backed up to a bluff, we would question if the site is even a candidate for wind energy production. No wind study has been done on this site to our knowledge. Given the above factors and industry trends that wind energy for this type of site has a worse payback than other types of renewable energy, it is determined that wind energy in not practical for this site.

Photovoltaic: The proposed building would receive its electricity from the existing campus electrical system. Using PV Watts, a photovoltaic energy estimating program, we calculate that a 2 KW photovoltaic array would be needed to produce 1,700 kwh per year. The total cost of this system is estimated to be about \$17,500. The cost of electrical energy is \$0.09 per kwh; therefore, the estimated annual savings are \$309 per year. The payback is 56 years. This option is therefore not feasible for this project.



Geothermal: A ground-source heat pump system could be made useful by generating heating and cooling energy in place of the system above (existing campus steam system/DX condensing unit). The system would consist of an earth heat exchanger (well field), an indoor water-to-water heat pump, circulating pumps, and piping. The airside portions of the systems would remain as described above. The overall estimated system cost (including the cost of soil testing) would be approximately \$171,000 more than the existing campus steam system/DX condensing unit system. Based on detailed energy modeling of the boiler/chiller system vs a ground-source heat pump system indicates an approximate annual savings of \$4000. Based on the estimated cost increase to utilize a ground-source heat pump system, the payback is 42.75 years. This option is therefore not feasible for this project.

## Summary:

Alternate Energy Source	% of Annual Energy	Probable Cost (\$)	Annual Savings (\$)	Payback Period (Years)
Geothermal	2%	\$171,000	\$4,00	42.75
Photovoltaic	2%	\$17,500	\$309	56
Solar Thermal	N/A	N/A	N/A	N/A
Wind	N/A	N/A	N/A	N/A



## FURNITURE, FIXTURES, AND EQUIPMENT (FF&E)

The program furnishings, office furniture, workstations, tables, chairs, file cabinets and other office furnishings will be directly purchased by the Facility through MINNCOR but funded within the project.

MCF Faribault Dakota Building

Lt. Office					
Desk	24x60 fixed	2	\$ 400	\$	800
Pedestal Files		2	\$ 260	\$	520
desk Chair		1	\$ 600	\$	600
side chairs		2	\$ 240	\$	480
				\$	2,400
Case Manager office					
desk	24x60	2	\$ 400	\$	800
Pedestal files		2	\$ 260	\$	520
chair		1	\$ 600	\$	600
side chairs		2	\$ 240	\$	480
				\$	2,400
Transitions office					
desk	24x60	2	\$ 400	\$	800
Pedestal files		2	\$ 260	\$	520
chair		1	\$ 600	\$	600
side chairs		2	\$ 240	\$	480
				\$	2,400
Multi Purpose Room					
24x60 tables		12	\$ 301	\$	3,612
chairs		24	\$ 240	\$	5,760
				\$	9,372
Chapel					
chairs		24	\$ 180	\$	4,320
podium/wood		1	\$ 500	\$	500
				\$	4,820
Grand total				\$2	21,392

Note: FF&E escalated to 2021 cost of \$24,600

\$24 <b>,</b> 600
\$ 3,690
\$28,291
\$ 3,027
\$31,318



## SECTION 4.H – PROJECT PROCUREMENT AND DELIVERY

The method used for delivering the project will be the Construction Manager at Risk (CMAR) and the CMAR to be on site to manage the project.

All product specifications will be written to allow multiple manufacturers and suppliers to competitively bid the products. No single product or single source will be specified unless formal prior justification and approval was received.

## SECTION 4.1 – PROJECT DESIGN SERVICES AND ADDITIONAL OWNER COSTS

See Appendix 6 for a comprehensive list of possible design and soft costs that are included for the proposed project.

## **SECTION 4.J – QUALITY CONTROL PLAN**

Along with the code required testing, the Project included the following quality control measures that were incorporated into the project delivery process for the project:

- Specified submittals of quality control plans by the contractors and subcontractors.
- Building Information Modeling (BIM) for clash detection.
- BIM interface with Archibus.

#### Section 4 APPENDICES FOLLOW THIS SECTION

APPENDIX 4a - Space Needs Inventory Forms
APPENDIX 4b - Applicable Statutes for State Funded Projects



## APPENDIX 4a - SPACE NEEDS INVENTORY

Room/ Space Name: Transition Office

Number of Spaces in program: 1 Square Foot Area: 150 sq. ft.

Function: Office

Adjacencies: Staff Toilet, Case Manager Office, & Lieutenant Office

Furniture, Fixtures, & Equipment: Desk, Chair, & Computer

**Architectural Finishes** 

Flooring: Carpet

Wall Material: Gypsum Board Ceiling: Acoustical Ceiling Tile

Lighting: LED Fixture Wall Base: Vinyl Wall Finish: Paint Ceiling Height: 9'-0" Special Criteria: N/A

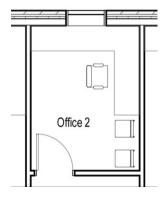
Mechanical/ HVAC/ Piping Requirements: See Section 4.G Mechanical Article

**Electrical Requirements:** See Section 4.G Electrical Article

Technology Requirements: See Section 4.C Technology Plan and Telecommuting Plan & Section 4.G Technology Article

Security Requirements: See Section 4.G Security Article

Room Layout Diagram: 1/8" = 1'-0"



Adjacency Layout Diagram: See Appendix 4c Adjacency Diagram



## APPENDIX 4a - SPACE NEEDS INVENTORY

Room/ Space Name: Case Manager Office

Number of Spaces in program: 1 Square Foot Area: 150 sq. ft.

Function: Office

Adjacencies: Staff Toilet, Transition Office, & Lieutenant Office

Furniture, Fixtures, & Equipment: Desk, Chair, & Computer

**Architectural Finishes** 

Flooring: Carpet

Wall Material: Gypsum Board Ceiling: Acoustical Ceiling Tile

Lighting: LED Fixture
Wall Base: Vinyl
Wall Finish: Paint
Ceiling Height: 9'-0"
Special Criteria: N/A

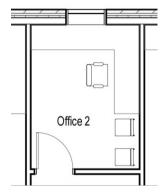
Mechanical/ HVAC/ Piping Requirements: See Section 4.G Mechanical Article

Electrical Requirements: See Section 4.G Electrical Article

Technology Requirements: See Section 4.C Technology Plan and Telecommuting Plan & Section 4.G Technology Article

Security Requirements: See Section 4.G Security Article

Room Layout Diagram: 1/8" = 1'-0"



Adjacency Layout Diagram: See Appendix 4c Adjacency Diagram



## APPENDIX 4a - SPACE NEEDS INVENTORY

Room/ Space Name: Lieutenant Office

Number of Spaces in program: 1 Square Foot Area: 150 sq. ft.

Function: Office

Adjacencies: Staff Toilet, Transition Office, & Case Manager Office

Furniture, Fixtures, & Equipment: Desk, Chair, & Computer

**Architectural Finishes** 

Flooring: Carpet

Wall Material: Gypsum Board Ceiling: Acoustical Ceiling Tile

Lighting: LED Fixture Wall Base: Vinyl Wall Finish: Paint Ceiling Height: 9'-0" Special Criteria: N/A

Mechanical/ HVAC/ Piping Requirements: See Section 4.G Mechanical Article

**Electrical Requirements:** See Section 4.G Electrical Article

Technology Requirements: See Section 4.C Technology Plan and Telecommuting Plan & Section 4.G Technology Article

Security Requirements: See Section 4.G Security Article

Room Layout Diagram: 1/8" = 1'-0"



Adjacency Layout Diagram: See Appendix 4c Adjacency Diagram



Room/ Space Name: Multi-purpose Room

Number of Spaces in program: 1

**Square Foot Area:** 600 sq. ft. (24 inmates x 25 sf/ per inmate)

Function: A room which can be transformed to accommodate multiple functions

Adjacencies: Multipurpose Storage, Inmate Toilet

Furniture, Fixtures, & Equipment: Chairs, Tables, & White Board

**Architectural Finishes** 

Flooring: Carpet

Wall Material: Masonry
Ceiling: Acoustical Ceiling Tile

Lighting: LED Fixture
Wall Base: Vinyl
Wall Finish: Paint
Ceiling Height: 9'-0"
Special Criteria: N/A

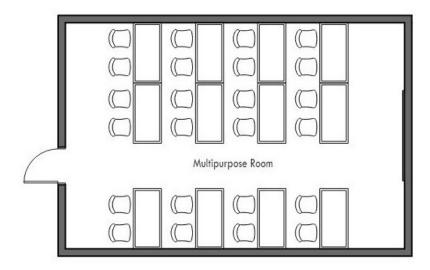
Mechanical/ HVAC/ Piping Requirements: See Section 4.G Mechanical Article

Electrical Requirements: See Section 4.G Electrical Article

Technology Requirements: See Section 4.C Technology Plan and Telecommuting Plan & Section 4.G Technology Article

Security Requirements: See Section 4.G Security Article

Room Layout Diagram: 1/8" = 1'-0"





Room/ Space Name: Multipurpose Storage

Number of Spaces in program: 1 Square Foot Area: 60 sq. ft.

Function: Storage

Adjacencies: Multipurpose Room

Furniture, Fixtures, & Equipment: Shelving

**Architectural Finishes** 

Flooring: Carpet
Wall Material: Masonry
Ceiling: Acoustical Ceiling Tile

Lighting: LED Fixture Wall Base: Vinyl Wall Finish: Paint Ceiling Height: 9'-0" Special Criteria: N/A

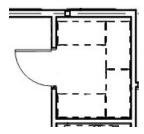
Mechanical/ HVAC/ Piping Requirements: See Section 4.G Mechanical Article

Electrical Requirements: See Section 4.G Electrical Article

Technology Requirements: See Section 4.C Technology Plan and Telecommuting Plan & Section 4.G Technology Article

Security Requirements: See Section 4.G Security Article

Room Layout Diagram: 1/8" = 1'-0"





Room/ Space Name: Chapel Number of Spaces in program: 1

Square Foot Area: 600 sq. ft. (24 inmates x 25 sf/ per inmate)

Function: Place of worship

Adjacencies: Chapel Storage & Inmate Toilet

Furniture, Fixtures, & Equipment: Chairs & podium

## **Architectural Finishes**

Flooring: Carpet
Wall Material: Masonry
Ceiling: Acoustical Ceiling Tile

Lighting: LED Fixture
Wall Base: Vinyl
Wall Finish: Paint
Ceiling Height: 10'-0"
Special Criteria: N/A

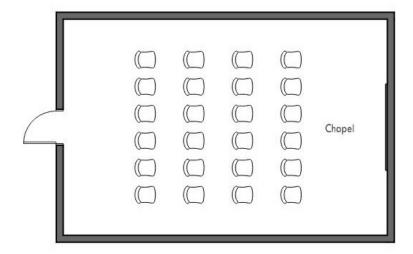
Mechanical/ HVAC/ Piping Requirements: See Section 4.G Mechanical Article

**Electrical Requirements:** See Section 4.G Electrical Article

Technology Requirements: See Section 4.C Technology Plan and Telecommuting Plan & Section 4.G Technology Article

Security Requirements: See Section 4.G Security Article

Room Layout Diagram: 1/8" = 1'-0"





Room/ Space Name: Chapel Storage

Number of Spaces in program: 1 Square Foot Area: 30 sq. ft.

Function: Storage

Adjacencies: Chapel

Furniture, Fixtures, & Equipment: Shelving

**Architectural Finishes** 

Flooring: Carpet

Wall Material: Masonry
Ceiling: Acoustical Ceiling Tile

Lighting: LED Fixture
Wall Base: Vinyl
Wall Finish: Paint
Ceiling Height: 9'-0"
Special Criteria: N/A

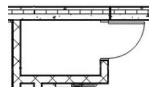
Mechanical/ HVAC/ Piping Requirements: See Section 4.G Mechanical Article

Electrical Requirements: See Section 4.G Electrical Article

Technology Requirements: See Section 4.C Technology Plan and Telecommuting Plan & Section 4.G Technology Article

Security Requirements: See Section 4.G Security Article

Room Layout Diagram: 1/8" = 1'-0"





Room/ Space Name: Laundry Number of Spaces in program: 1 Square Foot Area: 800 sq. ft.

Function: Laundry

Adjacencies: Inmate Toilet

Furniture, Fixtures, & Equipment: Commercial Washers (4), Commercial Dryers (4), laundry carts, folding counter, and

chemical storage

## **Architectural Finishes**

Flooring: Epoxy
Wall Material: Masonry

Ceiling: Acoustical Ceiling Tile

Lighting: LED Fixture
Wall Base: Vinyl
Wall Finish: Paint
Ceiling Height: 9'-0"
Special Criteria: N/A

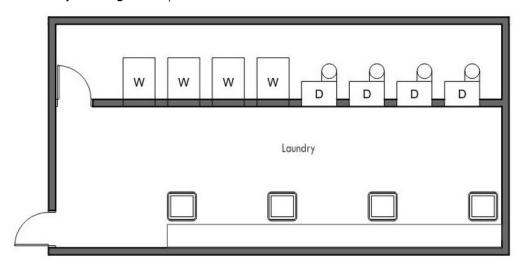
Mechanical/ HVAC/ Piping Requirements: See Section 4.G Mechanical Article

**Electrical Requirements:** See Section 4.G Electrical Article

Technology Requirements: See Section 4.C Technology Plan and Telecommuting Plan & Section 4.G Technology Article

Security Requirements: See Section 4.G Security Article

Room Layout Diagram: 1/8" = 1'-0"





Room/ Space Name: IT Room Number of Spaces in program: 1 Square Foot Area: 200 sq. ft.

Function: Storage for servers and all IT equipment

Adjacencies: Transition Office, Case Manager Office, & Lieutenant Office

Furniture, Fixtures, & Equipment: Desk, Chair, Servers, & AC unit

**Architectural Finishes** 

Flooring: Carpet

Wall Material: Gypsum Board or Masonry

Ceiling: Acoustical Ceiling Tile

Lighting: LED Fixture Wall Base: Vinyl Wall Finish: Paint Ceiling Height: 9'-0" Special Criteria: N/A

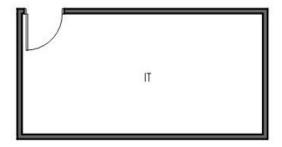
Mechanical/ HVAC/ Piping Requirements: See Section 4.G Mechanical Article

**Electrical Requirements:** See Section 4.G Electrical Article

Technology Requirements: See Section 4.C Technology Plan and Telecommuting Plan & Section 4.G Technology Article

Security Requirements: See Section 4.G Security Article

Room Layout Diagram: 1/8" = 1'-0"





Room/ Space Name: Staff Toilet - ADA Compliant

Number of Spaces in program: 1 Square Foot Area: 50 sq. ft. Function: Toilet facility for staff

Adjacencies: Offices

Furniture, Fixtures, & Equipment: Wall Mounted ADA Toilet, Sink, Grab Bars, Toilet Paper Holder, Paper Towel

Dispenser, & Mirror

### **Architectural Finishes**

Flooring: Ceramic Tile
Wall Material: Cement Board

Ceiling: Abuse Resistant Gypsum Board

Lighting: LED Fixture
Wall Base: Ceramic Tile
Wall Finish: Ceramic Tile
Ceiling Height: 9'-0"
Special Criteria: N/A

Mechanical/ HVAC/ Piping Requirements: See Section 4.G Mechanical Article

**Electrical Requirements:** See Section 4.G Electrical Article

Technology Requirements: See Section 4.C Technology Plan and Telecommuting Plan & Section 4.G Technology Article

Security Requirements: See Section 4.G Security Article

Room Layout Diagram: 1/8" = 1'-0"





Room/ Space Name: Inmate Toilet - ADA Compliant

Number of Spaces in program: 1 Square Foot Area: 50 sq. ft. Function: Toilet facility for inmates

Adjacencies: Multipurpose Room, Chapel, & Laundry

Furniture, Fixtures, & Equipment: ADA Combi Unit, Grab Bars, Toilet Paper Holder, & ADA Mirror

## **Architectural Finishes**

Flooring: Epoxy
Wall Material: Masonry

Ceiling: Abuse Resistant Gypsum Board

Lighting: LED Fixture Wall Base: Paint Wall Finish: Paint Ceiling Height: 9'-0" Special Criteria: N/A

Mechanical/ HVAC/ Piping Requirements: See Section 4.G Mechanical Article

**Electrical Requirements:** See Section 4.G Electrical Article

Technology Requirements: See Section 4.C Technology Plan and Telecommuting Plan & Section 4.G Technology Article

Security Requirements: See Section 4.G Security Article

Room Layout Diagram: 1/8" = 1'-0"





## **SECTION 4 - APPENDIX 4b**

## APPLICABILITY OF STATUTES FOR PROJECTS RECEIVING STATE FUNDING

STATUTE	RECIPIENT	REMARKS
	State Agency	
1. §16B.241 Coordinated Facility Planning	YES (required)	
2. §16B.32, Subd 1 Alternative Energy Sources if renovating 50	` '	
percent or more of an existing building or its energy systems	NO	Not required as we are not renovating 50 percent or more.
3. §16B.32, Subd 1a Renewable Energy Sources - 2% of energy		
use Solar or Wind-predesign must include analysis	YES	
4. §16B.32, Subd 2 Energy Conservation Goals	YES	
5. §16B.323 Solar Energy in State Buildings.		
Up to 5% of appropriation to be used on Solar energy system when doing substantial reconfiguration or replacement of energy systems	YES	
6. §16B.325: §16B.325: Apply Sustainable Guidelines (B3-	YES	
MSBG) (http://www.b3mn.org/guidelines/index.html	New Bldgs, Addns	
§216B.241 Sustainable Building 2030 requirements	& Major	
Contact/support: http://www.b3mn.org/guidelines/index.html	Renovations	
7. §16B.326		
Written plan w/predesign to consider providing Geothermal & Solar	YES	
Energy Heating & Cooling Systems on new or replacement HVAC		
systems		
8. §16B.327 Recycle 50% of Construction & Demolition Waste	YES	Applicable as this project is more than
(B3-MSBG requires 75%)	See #6, MSBG	\$5,000,000.
9. §16B.33 State Designer Selection Board	YES	Included in the overall schedule.
10. §16B.335, Subd 1,		
Notification to House & Senate Committees	YES	Project will be submitted.
11. §16B.335, Subd 3 Predesign Submittal		
See Statute for exempted projects	YES	Predesign performed.
12. §16B.335, Subd 4 Energy Conservation Standards		
(Energy Code - MN Rules 1322/1323	YES	Included in design narratives. Extending
http://www.doli.state.mn.us/CCLD/Codes.asp		existing services.
13. §16B.335, Subd 5 & 6 Review & letter by MN.IT	YES	Letter provided.
14. §16B.335, Subd. 3c. Consider the use of MINNCOR products		
www.minncor.com	YES	MINNCOR provided.
15. §16B.35 % for Art When considered in original legislative	MEG	
request; & when constn is \$500K or greater	YES	Included in cost estimate.
16. §177.42-44 Prevailing Wage Rates- Contractor must pay	MEG	T 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
prevailing wages <a href="https://www.revisor.mn.gov/statutes/?id=177">https://www.revisor.mn.gov/statutes/?id=177</a>	YES	Included in cost estimate.
17. Laws 2014, Chapt 294, Sec 22 and Chapt 295, Sec 21 AMERICAN-MADE STEEL.	YES	Included in cost estimate.
	1 E.S	meraded in cost estimate.
18. §16A.633 Jobs Reporting. Must report to legislature on jobs	YES	Will report as required.
created or retained as a result of capital project funding by the state.  19. §363A.44 Laws 2014, Chapt 239, Sec 6 Equal Pay (Women's	1 ES	will report as required.
Economic Security Act). Equal Pay Certificate from MDHR	YES	Will provide in project.
required on contracts over \$500K (prime and subs)	1 EO	Will provide in project.
20. §16C.285 Laws 2014, Chapt 253, Responsible Contractor		
20. §100.205 Euro 2011, Chapt 255, Responsible Contractor	YES	Will include in project specifications.
21. §16A.695 Use / Grant Agreement	NO	In morade in project specifications.
22. Appropriation Language	See appropriation.	See appropriation.
	250 appropriation.	222 appropriation.
DEFEDENCE. Link to State Statutes.	1 // .	er lag state mn us/nubs

REFERENCE: Link to State Statutes: <a href="https://www.revisor.leg.state.mn.us/pubs">https://www.revisor.leg.state.mn.us/pubs</a>



## 5. Site Analysis and Selection

Based on the selected option from the previous Study, and the fact that the existing building will be partially demolished and a replacement expansion constructed in its place, there was no site selection required.

The existing building, adjacent parking lots and recreation courts sit on approximately 4.5 acres.



## **SECTION 6.1 – CAPITAL EXPENDITURES**

The total project cost shown in the Agency Capital Budget Request, includes all direct and associated costs for all activities and phases, including design, surveys, testing, construction, loose equipment, furniture and fixtures, commissioning, move-in, temporary relocations, environmental site analysis, and contingencies. The cost estimate was prepared by Cost, Planning & Management International, Inc, (CPMI) a professional cost estimating consultant.

## SECTION 6.2 – ONGOING OPERATING EXPENDITURES

The staffing quantities remain the same as they currently are for the existing building. No cost decrease or increase is expected.

The utility cost savings are expected to be significant on the new addition compared to the old two-story uninsulated portion being demolished.

## **SECTION 6.3 – LIFE EXPECTANCY**

The life expectancy of a steel structure and exterior steel stud and brick with garage and stairways as precast concrete varies between 25 - 50 years if properly maintained.

## **SECTION 6.4 – COMPARATIVE FINANCIAL ANALYSIS**

Klein McCarthy Architects used the information developed in Predesign For 96-Bed Minimum Housing Unit at MCF – Red Wing, RECS Project No. 78RW0028 revised and issued October 27, 2017. To provide the same comparable 96-Bed minimum security housing facility, the Total Estimated Construction Cost was \$12,214,000 with an estimated Total Project Cost of \$16,199,000 (all costs associated with the project). The Project Cost inflated to the same midpoint of construction as MCF Faribault would be \$27,991,272.

Klein McCarthy Architects also used the information developed in Predesign For 96-Bed Minimum Housing Unit at MCF – Stillwater, RECS Project No. 78SW0048 revised and issued October 30, 2017. To provide the same comparable 96-Bed minimum security housing facility, the Total Estimated Construction Cost was \$10,928,000 with an estimated Total Project Cost of \$14,622,000 (all costs associated with the project). The Project Cost inflated to the same midpoint of construction as MCF Faribault would be \$25,266,276.

Both of the Predesigns at MCF Red Wing and MCF Shakopee contained similar characteristics of 96 beds, programs, and support for new precast constructed facilities. The largest difference was that they were new facilities compared to an addition and remodeling of the MCF Faribault facility at a Project Cost of \$7,987,468.



## **SECTION 6.5 – RISK MITIGATION**

This project involves new construction, addition and renovations, and will include the following project quality control plan included in the project budget:

- Building Envelope Commissioning (Design reviews and construction commissioning and inspections during construction).
- HVAC and Electrical Systems Commissioning (Design reviews and construction commissioning and inspections during construction).
- MN Sustainable Building Guidelines (B3)
- Building Information Modeling (BIM) with interface of equipment with Archibus.

Identify all potential site related risks and the associated plan to mitigate them:

• Utility tunnel that enters the building under the existing portion to be demolished. This will be designed to allow the first-floor slab to remain in place with structural modifications so that the new expansion will build adjacent to it and over it so that eth utility tunnel remains intact. The remaining tunnel will be protected and designed to be built over as to avoid damage.

Identify risks associated with the design and construction of the building:

- Current water infiltration will be mitigated with additional foundation waterproofing and drain tile system.
- The utility tunnel will be address as described above.



## APPENDIX 6 - WORKSHEET FOR DESIGN AND OWNER COSTS

Item	Scope of Work	Fee/Cost			
Х	Basic Services -Architectural	\$0			
Х	Civil	Included in basic fee			
	Landscape	N/A			
Х	Structural	Included in basic fee			
Х	MEP (Mechanical, Electrical, Plumbing)	Included in basic fee			
Х	Hazardous Material survey, design, air monitoring, abatement	\$75,000			
Х	Additional Services (See Section 4.J Quality Control Plan)	Included in basic fee			
	1. Specialty Design:	Included in basic fee			
	Security Design; Technology; Fire Protection				
Х	2. Interior & Furniture, Fixtures & Equipment (FF&E) bid package(s)	\$31,318			
Х	3. Minnesota Sustainable Building Guidelines & SB2030	Included			
X	4. Building Information Modeling (BIM)	Included			
	5. Move/Occupancy Consultant & Moving company	N/A			
	6. Environmental Assessment Worksheet-Impact of selected site	N/A			
X	7. Presentation model of building	Included in basic fee			
X	8. Presentation Sketches of building	Included in basic fee			
	9. Presentations to Legislature, Agency Management, others	N/A			
	10. Exterior utility costs	N/A			
OWNE	R COSTS (See Section 4.J Quality Control Plan)				
Х	1. Owner's Project Representative $(1-2\% \text{ of construction})$	\$0			
Х	2. CM at Risk Fees – Preconstruction and Project Fee	\$386,000			
Х	3. Other State Project Management Costs (0.75% of construction)	\$55,378			
Х	4. Construction costs auditor – (for CM-Risk & Design Build)	Included			
Х	5. Building Abatement Design and Removal (Renovation & Demo)	Included in Owner			
		Contingency			
Х	6. Topographic (ALTA) Survey of selected site	Included in Owner			
		Contingency			
Х	7. Geotechnical Investigation of selected site	Included in Owner			
		Contingency			
	8. Phase I and II Environmental Site Assessment (for contaminants)	N/A			
	9. Environmental Assessment Worksheet-Impact Statement (if required)	N/A			
X	10. HVAC and Electrical Systems Commissioning (B3 Requirement)	\$50,000			
	11. Building Envelope Commissioning	N/A			
Х	12. Construction Testing and curtainwall testing services	Included in			
		Construction Cost			
X	13. Permit Costs	Included in			
	14.6 4 6 4046) 1244 5 6 40446	Construction Cost			
X	14. Sewer Access Cost (SAC) and Water Access Cost (WAC)	\$150,000			
	15. Wetlands Delineation and (Design & Mitigation)	N/A			
	16. Utility Service Upgrades (Water, sewer, gas, electric) & Const'n	N/A			
	17. Traffic Studies	N/A			
	18. Historic Structures Report (Historic Preservation Consultant fee)	N/A			



## **APPENDIX 6a: Project Cost Form**

Project Costs	Corrections									
Entity:	Corrections	la Deliesa Di	ildina Danassa	-+!						
Project Name:	MCF-Faribau	lt - Dakota Bi	uilding Renova	ation						
Date of Estimate:	Delay Vacu	Dulan Vasu	Tatal All	Date	V	Danisat Vans	Danisat Vans			
Project Cost Category (Dollars in Thousands)	Prior Year 2020	Prior Year 2021	Total All Prior Years	202	quest Year	Request Year 2024	Request Year 2026	Request Total	Dro	ject Total
·								Request Total	Pro	ject rotai
Fiscal Years (FY)	(7/1/19-6/30/20)	(7/1/20-6/30/21	l) to 6/30/21	(7/1	/21-6/30/23)	(7/1/23-6/30/25)	(7/1/25-6/30/27)			
Acquisition of Land, Land										
Easements, Options	\$ -	\$ -	· \$ ·	- \$	-	\$ -	. \$ -	. \$ .	- \$	
Property Acquisition Subtotal				- \$	-	\$ -	. \$ -	\$ .	- \$	
Predesign Fees	\$ -	\$ -	. \$ .	-					\$	
Predesign Fees Subtotal			\$ -	-					\$	
Schematic Design				\$	-				\$	
Design Development Contract Documents				\$	-				\$	
Contract Documents  Construction Administration				\$	-				\$ \$	
Include Post Construction above				\$					\$	
Other Design Costs				\$	_				\$	
Include 5% Owner Contingency abov	re			\$					\$	
Design Fees Subtotal				\$	_				\$	
State Staff Project Management				\$	55,378				\$	55,37
Non-State Project Management				\$					\$	,
Commissioning				\$	50,000				\$	50,00
Other Project Management Costs				\$	-				\$	
Project Management Subtotal				\$	105,378				\$	105,37
Site and Building Preparation				\$	244,000				\$	244,00
Demolition and Decommissioning				\$	82,000				\$	82,00
Construction				\$	4,552,000				\$	4,552,00
Includes CM fee of 5% in above				\$	386,000				\$	386,00
Infrastruture/Roads/Utilities				\$	576,000				\$	576,00
Hazardous Materials Abatement				\$	75,000				\$	75,00
Testing				\$	-				\$	
Construction Contingency				\$	463,400				\$	463,40
Other Construction Costs				\$	150,000				\$	150,000
Construction Subtotal				\$	6,528,400				\$	6,528,400
Relocation Expenses				\$	-				\$	
Relocation Expenses Subtotal				\$					\$	
One Percent for Art One Percent for Art Subtotal				\$ <b>\$</b>					\$ <b>\$</b>	
Furniture , Fixtures & Equipment				\$	31,318				\$	31,318
Telecommunications Voice & Data				\$	31,310				\$	31,310
Security Equipment				\$					\$	
Other Occupancy Costs				\$					\$	
Occupancy Costs Subtotal				\$	31,318				\$	31,318
Sub-Total Project Costs			\$ .	- \$	6,665,096	\$ -	· \$ -	. \$ .	- \$	6,665,096
Owner Contingency				\$	738,372				\$	738,37
Mid-Point of Construction:					Jul-23	1				
The Inflation Rate is:					10.7%	,				10.7
Consultant Estimated Costs including										
Inflation using MMB factors at										
Predesign				\$	584,000				\$	584,000
Total Project Costs (Predesign)				\$	1,322,372				\$	1,322,372
System Calculated Inflation										
Inflation Costs Included in Request										
Inflationary Adjustment										
Tabal Barahara Caraba ( a 2000)				,	7.007.465	<u> </u>		Ć	Á	7.007.45
Total Project Costs (per MMB)			\$ .	- \$	7,987,468	> -	\$ -	. \$	- \$	7,987,468
Total Funding Sources Related to the Request									\$	7,987,468
Request Costs less Funding									\$	(0)
girini i coa. care									7	(0)
Comments on Project Costs										
T Costs										
Operating Budget Impact (\$)										
Operating Budget Impact (FTE)										
System Calculated Contingency										
Contingency Included in Request										
Contingency Difference										
Comments on Contingency										



## **APPENDIX 6b: Construction Costs Form**

## **CAPITAL BUDGET REQUEST**

## CONSTRUCTION COSTS FORM

CONSTRUCTION TYPE OF SPACE	EXISTING	NEW CONSTRUCTION			REMODELING			RENEWAL (Asset Preservation)			
List Major Type of Space (Office, Lab, Ramp, etc.)	Gross Sq. Feet	Gross Sq. Feet	Cost (in \$000)	Cost Per Sq. Foot (in \$)	Gross Sq. Feet	Cost (in \$000)	Cost Per Sq. Foot (in \$)	Gross Sq. Feet	Cost (in \$000)	Cost Per Sq. Foot (in \$)	(in \$000)
Programs/Classrooms		4,383	2,091	477							2,091
Housing and support					19,438	3,039	156				3,039
TOTAL			2,091	477		3,039	156		0	0	5,130

This form is for Reporting and Analysis of Construction Costs only.

No other cost items from the Project Cost Form should be included on this form.



## **APPENDIX 6c: Operating Cost Form**

## **CAPITAL BUDGET REQUEST**

## **OPERATING COSTS FORM**

	С	urrent Cost	Projected Cost (Without Inflation)								
CHANGES IN STATE OPERATING COSTS	F. Y. 2018		F.Y. 7/1/18 - 6/30/20		F.Y. 2021-22		F.Y. 2023-24		F.Y. 2025-26		
Compensation (Program and Building Operation)	\$	1,116,000	\$	2,230,000	\$	2,530,000	\$	2,594,000	\$	2,658,000	
Expenses - Food Service Food Compensation GPS Support	\$	250,000	\$	540,000	\$	785,000	\$	785,000	\$	785,000	
Building Operating Expenses (Utilities)	\$	90,000	\$	188,000	\$	189,000		195,000	\$	195,000	
State-Owned Lease Expenses	\$	-	\$	-	\$	-	\$	-	\$	-	
Nonstate-Owned Lease Expenses	\$		\$	_	\$		\$	-	\$		
Other Expenses: Insurance** Initial Furnishings							\$ \$	N/A 32,280			
Revenue Offsets											
TOTAL No. of FTE* Personnel	\$	1,456,000 13.5	\$	2,958,000 13.5	\$	3,504,000 13.5	\$	3,606,280 13.5	\$	3,638,000 13.5	

<sup>\*</sup>FTE = Full Time Equivalent - No additional staff is added



<sup>\*\*</sup> Agency is billed as a total, not by building therefore insurance information is not applicable No additional operating costs are increased over current costs

## **SCHEDULE**

Site Acquisition: Project Funding:

Bidding:

Award Negotiation:

Construction:

Mid-point of Construction:

Close-Out: Occupancy: None required July 2022

July - August 2022

September – October 2022 November 2022 – May 2024

July 2023 June 2024 July 2024



## PREDESIGN CHECKLIST

- 1. Minnesota Statute §16B.335 Subdivision 3 requires submittal of a Predesign Document to the Commissioner of Administration on proposed projects that have a construction cost of \$750,000 or greater (\$1,500,000 for a local government project) when State money (of any amount) is used on the project.
- 2. When an appropriation is made for a major construction project, Minnesota Statute §16B.335 Subdivision 1 further requires that you not prepare final plans (construction documents) until you present the program plan and cost estimates for all elements necessary to complete the project to the Chair of the Senate Finance Committee and the Chair of the House Ways and Means Committee, and they have made their recommendations and the Chair of the House Capital Investment Committee is notified.

COMPLETE THE CHECKLIST AND ATTACH WITH THIS SECTION.





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received a legislative appropriation.)

7. Section 2 Basis For Need-Project Background: Verify that the scope of the predesign complies with the language of the appropriation. (For projects that have already

ď	<ul> <li>8. Section 3 Agency/Organization Planning: This Section supports the Basis for Need–Project Background. Obtain the following from the user agency/organization:</li> <li>a. Planning documents such as org charts, mission statement,</li> <li>b. Strategic plan, and</li> <li>c. Operational plan for the project.</li> </ul>
	This information would include any supporting data, analysis or studies which support the proposed project and demonstrates the need for the project by linking it to the agency's mission, strategic and operational plans; which, in turn were used to prepare Section 2.
Ø	<b>9.</b> Section 3 Agency/Organization Planning: Included a list and narrative regarding the stakeholders involved and affected by the project (i.e. other agencies, organizations, and entities). Also include issues that remain to be resolved among stakeholders along with budget and schedule impacts upon the project.
abla	10. Section 3 Agency/Organization Planning: Impacts on Operations, Budget and Facility Staff are detailed.
Ø	11. Section 4.A Architectural /Engineering Program: (For State Agency projects) Obtain and coordinate space planning standards with the Department of Administration. Then, include a review sign-off from The Department of Administration's Real Estate and Construction Services Division. Focus on job related functional needs and the State's Space Guidelines when developing the square foot areas of spaces. (Space Guidelines are located at <a href="http://mn.gov/admin/government/construction-projects/">http://mn.gov/admin/government/construction-projects/</a> ).
Ø	12. Section 4.A Architectural/Engineering Program. Work with the user/owner to develop the space program. Employ a participatory programming methodology similar to the example) to analyze operations and activities. a. Your methodology should consider Post-Occupancy Evaluation (POE).
Ø	13. Section 4.A Architectural/Engineering Program.: Complete the Space Needs Inventory sheet for each room of the project. Include these sheets in the predesign document. The Space Needs sheet should also identify special Mechanical or Electrical needs or upgrades for the space. For instance, you would state the need for special humidification for wood instrument storage in a music classroom.
	<b>14.</b> Section 4.A Architectural/Engineering Program.: Prepare and include a detailed architectural space program with a Table of Spaces and their respective areas (square footages) with a total of assignable and gross square feet.
Ø	<b>15.</b> Section 4.A Architectural/Engineering Program.: Provide adjacency diagrams of all spaces and a diagrammatic/conceptual layout of spaces. Superimpose these diagrams onto the Site Plan to show building/site fit and site relationships.



lacktriangledown	16. Section 4.A Architectural/Engineering Program.: On state agency projects, identify potential MINNCOR Industries <a href="www.minncor.com">www.minncor.com</a> and Minnesota State Industries products <a href="http://stateindustries.org">http://stateindustries.org</a> for the project.
☑	17. Section 4.A Architectural/Engineering Program. (for State Agency Projects): If applicable to the agency, work with the user agency to incorporate a Telecommuting Plan for this project. Include the Telecommuting Plan with the Predesign submittal document. Obtain review & response letter from MN.IT.
Ø	18. Section 4.A Architectural/Engineering Program. Develop the Furniture, Fixtures and Equipment (FF&E) needs and include the associated costs as a line item in the project cost estimate. Consider Interior/Exterior Signage Exterior landscaping and fixtures, Telecommunication devices, Security Camera System, Lockers, Trash compactor, Window washing equipment, Phasing costs, and Moving costs. (Note: moving costs are not bondable.)
Ø	19. Section 4.B Precedent Studies: Research the project. Visit similar building types and include precedent projects into the predesign document and how the precedent affects the proposed project. Include information on the facilities (name, location, size, design features). Then indicate any features that will be incorporated into the proposed project. Special attention should be paid to design features that result in efficiency of program operations and ability to reduce long term operating costs.
Ø	20. Section 4.C Technology Program (for State Agency Projects): Identify and document the technology needs for the project. Develop a Technology Plan for the project using the State's Technology agency (MN.IT) guidelines ("Building Infrastructure Guidelines for State Owned Buildings") located at: <a href="http://mn.gov/admin/government/construction-projects/">http://mn.gov/admin/government/construction-projects/</a> . Technology plan is to be reviewed by MN.IT.
Ø	<b>21.</b> Section 4.C Technology Plan (for State Agency Projects): Forward the Technology Plan to MN.IT (The State's Information Technology Agency) for review; and obtain a written letter from MN.IT. Incorporate any changes requested by MN.IT.
Ø	22. Section 4.D Sustainability, Energy Conservation and Carbon Emissions: In accordance with Minnesota Statute §16B.235 identify Sustainable and High Performance goals for the project using "The State of Minnesota Sustainable Building Guidelines" at <a href="http://www.b3mn.org/guidelines/index.html">http://www.b3mn.org/guidelines/index.html</a> . Include a summary table of goals & strategies. Also include the B3-MSBG project submittal report for the Predesign Phase that is generated by use of the B3-MSBG Tracking Tool at <a href="http://www.b3mn.org/guidelines/index.html">http://www.b3mn.org/guidelines/index.html</a> . This requirement applies when the project is new building, addition, or major
	renovation. See the Applicability rules at the B3-MSBG website.



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- State Operating Costs form (this form is included in this manual). formats/forms are also acceptable.
- 46. Section 6 Financial Information, review the Project Delivery Method (single prime, multiple prime, design/build) for impact on the Cost Plan for the project.
- 47. Section 6 Financial Information, include design fees for special consultants in the project costs (i.e. food service, acoustical, security, etc.).
- **48.** Section 6 Financial Information, verify existing utility infrastructures for adequate capacity needed to support the proposed building/facility or renovation. Incorporate costs for upgrades into the budget.



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$\square$		<b>49.</b> Section 6 Financial Information: If applicable and/or desired, include percent for Art in the project cost. Statute 16B.35 Subdivision 1 applies [up to 1% of the appropriation can be allocated to art in public buildings — Detention facilities and non-public buildings are exempt.]
		<b>50.</b> Section 6 Financial Information: Assist the user agency in identifying and incorporating contingency phasing and funding plans into the predesign to anticipate questions during legislative hearings.
Ø		<b>51.</b> Section 6 Financial Information: When the proposed project is for an existing correctional facility, obtain the contractor security requirements for the facility and include appropriate cost and schedule adjustments. (Working in a secure facility will add approximately 15-20% cost to the project.)
☑		<ul> <li>52. Section 6 Financial Information: On major building projects, use the predesign to develop an option-based strategy for the agency to use in approaching the governor and legislature when requesting funding. The predesign should anticipate possible questions by presenting options for varying scopes and costs. Examples are:</li> <li>a. It may make sense to break out options (and costs) to spread the funding over several capital bonding sessions.</li> <li>b. Phasing of the project.</li> </ul>
☑		<b>53.</b> Section 6 Financial Information: For renovations, a Facility Condition Assessment has been conducted on the existing building and associated upgrade costs are included in the estimate.
	Ø	<b>54.</b> Section 6 Financial Information: Conduct an industrial hygiene investigation to determine if there are any hazardous material/asbestos abatement clean-up costs, fuel tank removal and/or contaminated soils clean-up costs for the proposed project or site.
M		<b>55.</b> Section 6 Financial Information: Provide the Life Expectancy of the major building components and building as a whole and included in the predesign document. Show comparison costs of varying construction systems/components and their life span. Indicate the selected system that was used to prepare the cost estimates.
$\square$		<b>56.</b> Section 6 Financial Information (For State Agency projects): State's Design Guidelines were reviewed and associated costs accounted for.
☑		<b>57.</b> Section 7 Schedule Information: Include a schedule narrative and bar chart in the submittal document. Include time for hazardous material abatement, site clean-up, fuel tank removal and soils replacement costs, project schedule phasing time, relocation/move time, and any potential long-lead material deliveries.



## **PREDESIGN CHECKLIST** - continued

Complete N/A

Ø	<b>58.</b> Section 7 Schedule Information: Include a quality control/coordination review of the construction documents by a third party. Include the cost of this in the design budget. Indicate a minimum of 2 months in the schedule for this review.
Ø	59. For State Agency projects: Complete the Technology Checklist. Insert the MN.IT letter indicating they have reviewed and approved the Technology and Telecommuting Plans.
₫	<ul> <li>60. This predesign document contains all the necessary requirements and costs for:</li> <li>a. The owner to confidently pursue funding based on the cost estimates contained.</li> <li>b. The owner to advertise for design services and structure their contract with a design firm as to the design scope of work and fee; and,</li> <li>c. The future design team for all project requirements in order to carry out the proposed design.</li> <li>d. All owner costs required to deliver the proposed project.</li> </ul>
$\overline{\mathbf{Q}}$	<b>61.</b> Include the SIGNATURE sheet, with signature of the ARCHITECT (see page 1).

# PREDESIGN CHECKLIST – continued TECHNOLOGY & TELECOMMUNICATIONS

## Complete N/A

$\square$	1. Obtain a copy of MN.IT's "Building Infrastructure Guidelines For State-Owned Buildings" and review the requirements for costs to be included in the project. For future design use, should the project be funded, include the Technology Plan and guidelines in the predesign submittal.
☑	2. In coordination with MN.IT, determine the need for and develop a Technology & Telecommunications Plan for the project. Form and convene a Predesign meeting to determine the agency's technology needs, goals, timelines and objectives. The Predesign Team will consist of, but will not be limited to: Agency/customer Real Estate and Construction Services' (RECS) Project Manager Telecommunications Analyst (S)/Designer (if required for predesign)
	Note: The State's (RECS) Project Manager will provide the MN.IT contact name.
Ø	3. For remodeling projects, verify existing technology infrastructures for adequate capacity. Include upgrade costs in the Cost Estimate.
$\square$	4. Identify the user agency's short and long range plans for technology needs.
$\overline{\mathbf{Q}}$	5. Identify if the project is or will be a single building or campus configuration.
$\overline{\mathbf{Q}}$	6. Identify existing distribution rooms and their capacity.
$\overline{\mathbf{A}}$	7. Identify requirements for new distribution rooms.
	8. Identify Fiber Optic requirements, existing locations, new fiber lines.
$\overline{\mathbf{A}}$	9. Identify copper-wiring requirements, existing and new.
Ø	10. If information technology work is to be within an existing building, identify existing conditions; i.e. floor & ceiling heights & conditions, piping and duct conditions, water problems, feeder cable limitations, equipment room limitations.
$\overline{\mathbf{A}}$	11. Identify existing telecommunications infrastructure service to the building.
$\overline{\mathbf{A}}$	12. Identify types of existing cable trays and requirements for new cable trays.
Ø	<ol> <li>For projects in existing buildings, identify available communications "pairs" coming into the building.</li> </ol>
Ø	14. Identify MPOP (Main Point of Presence), APOP (Alternate Point of Presence), Internet Point of Presence locations and needs.
$\square$	15. Forward a copy of the project Technology Plan and Telecommuting Plan to MN.IT.



# PREDESIGN CHECKLIST – continued TECHNOLOGY & TELECOMMUNICATIONS

## Complete N/A

$\square$	16. Obtain a written letter from MN.IT indicating acceptance of the Technology Plan and Telecommuting Plan for the project. Incorporate MN.IT's letter into the Predesign Document.
Ø	17. Incorporate any changes into the Technology Plan as requested by MN.IT (resulting from review of agency's technology plan for the project).
$\square$	18. Verify existing utility infrastructures for adequate capacity and cost upgrades needed to support the proposed building/facility or renovation.

## PREDESIGN CHECKLIST

Check off the above items as they are completed and include this checklist with your final submittal document. Completion of this checklist is **MANDATORY**.

## **CONSULTANT SIGNATURE:**

Signature:

Printed Name: Scott W. Fettig, AIA

Title: President

Company: Klein McCarthy & Co., Ltd.

Name of Project: Predesign for the Dakota Building at MCF Faribault

Agency: Minnesota Department of Administration

Facility: MCF Faribault

State Project No.: 78FA0078



LETTERHEAD	
October 13, 2021	
Commissioner lineart name of Commissioner of Administration	
Commissioner [insert name of Commissioner of Administration] c/o Bee Yang	
Real Estate and Construction Services	
309 Administration Building	
50 Sherburne Avenue	
St. Paul, MN 55155	
Dear Commissioner ,	
RE: Predesign Submittal for the Dakota Building at MCF Faribault	
In accordance with Minnesota Statutes §16B.335, Subdivision 3, enclose Predesign submittal document for the 96-Bed Housing Unit at MCF Faribault predesign outlines the Department of Corrections' capital budget request legislative session.	in Faribault, MN. This
The project will include the building demolition of the dilapidated masonry 3 portion of the building in its entirety and construct a new single-story struct provide for replacement of spaces based on the spatial program included in provide for the facility's needs and to meet current inmate programm Disabilities Act (ADA), American Correctional Association (ACA) standard advancements.	ure of 4,383 GSF to in the report. This will ling, Americans with
The total project cost is estimated to be \$7,987,468. This proposal seel amount of \$7,987,468.	ks full funding in the
Sincerely,	
[insert Commissioner/Authority Name] [or head of political subdivision or other approving authority]	
for many or benness construction of amor abbiguing agricult.	
Enclosure	
CC:	



# Supplemental Information

The MCF Faribault Dakota Building budget was prepared by Cost, Planning & Management International, Inc. (CPMI), a professional cost estimating consultant, and is included on the following pages.



PREPARED FOR:

KLEIN McCARTHY ARCHITECTS ST. LOUIS PARK, MINNESOTA

PREPARED BY:

COST, PLANNING AND MANAGEMENT INTERNATIONAL, INC. EAGAN, MN • WEST DES MOINES, IA

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## **BASIC ASSUMPTIONS**

This Predesign Cost Management Report is based on information and drawings provided by Klein McCarthy Architects and received by CPMI on May 24th, through October 10th, 2019. The level of detail and accuracy of pricing in this estimate is consistent with the degree of completeness of the documents used for

Assumptions applied to this estimate include, but are not limited to:

## • Project Delivery Method

This project will be procured by a Construction Manager at Risk (CMaR) project delivery method.

## Design Contingency

An allowance for undeveloped design and specification detail is included in this estimate and added to each summary. As the design is further developed, this contingency will decrease in value and the cost associated with the design details will be incorporated into the itemized portion of the estimate. This contingency also includes cost engineering accuracies related to document interpretation.

## Project Conditions

This estimate is based on areas of the building being occupied and operational during the remodeling portion of construction. Construction will be performed in specific phases.

### Bid Conditions

This estimate is based on a competitive bid environment (minimum of 3 bidders) for all items of subcontracted work. It is also based on a minimum of three bids being received from general contractors. It is assumed prospective bidders will not be pre-qualified to bid on this project.

#### Construction Schedule

START MIDPOINT FINISH DURATION

Construction Nov 2022 July 2023 May 2024 20 Months

#### Escalation

Unit costs included herein are reflective of current costs with no escalation included. A labor and material escalation factor based on the above mentioned schedule is included on each option.

### **BASIC ASSUMPTIONS**

#### Items Excluded From This Estimate

Items which are not in the detail of this report include, but are not limited to:

- Overtime or shift work.
- Provisions for liquidated or actual damages.

## Non-Building Items Considered To Be Included In This Estimate

Items which are considered to be covered in the non-building costs include, but are not limited to:

- Professional design and consulting fees.
- Hazardous materials remediation.
- Construction contingency.
- Third-party building commissioning costs.
- Testing and inspections.
- Owner furnished and installed furniture, fixtures and equipment.
- Provisions for SAC or WAC charges and/or fees.

## Items Affecting The Cost Estimate

Items which may have an impact on the estimated construction cost include, but are not limited to:

- Modifications to the scope of work included in this estimate.
- Unforeseen sub-surface soil conditions.
- Restrictive technical specifications or excessive contract conditions.
- Construction period other than defined in this report.
- Any specified item of equipment, material or product that cannot be obtained from at least three different sources.

## Estimate Objective

This estimate is intended to be used as a tool for decision making and managing construction costs during the design phase of the project. It is prepared using industry contacts, experience, and the best judgment of a professional consultant. This estimate is intended to reflect an amount close to what would be the low bid of the project with respect to the present level of design and documentation along with consideration given to the current market conditions. CPMI has no control over market conditions, wage rates, or any contractor's method of determining prices or quantities. Therefore, CPMI cannot and does not guarantee this estimate will not vary from the actual bid.

**CPMI** 

# PRE-DESIGN COST MANAGEMENT REPORT DAKOTA BUILDING STUDY MINNESOTA CORRECTIONAL FACILITY - FARIBAULT FARIBAULT, MINNESOTA 14 OCTOBER 2021

## **RECAP**

DESCRIPTIO	DN	GSF	\$/GSF	TOTAL \$ AMOUNT
SUMMARY	Demolish two-story building and replace with a new addition 50% larger than area of demolition.			
	Existing Remodeled:	19,438	\$156.34	\$3,039,000
	New Addition:	4,383	\$477.07	\$2,091,000
	Sitework:			\$908,000
	TOTAL CONSTRUCTION COST	23,821	\$253.47	\$6,038,000
	Non-Building Costs:	23,821	\$126.74	\$3,019,000
	TOTAL PROJECT COST	23.821	\$380.21	\$9.057.000



## **UNIT COSTS**

14 OCTOBER 2021

DESCRIPTION	QUANTITY	UNIT COST	TOTAL \$ AMOUNT
Demolish the two story masonry building in it's entirety and construct a new single story structure (square footage to be 50% larger than what is demolished) to provide for replacement and to meet ADA, ACA and IT advancements. The existing single story building to have the roof, brick, windows, etc., evaluated and priced as an asset preservation effort.			
TWO-STORY BUILDING			
Building Demolition			
Demolish Building Including Foundations	3,249 SF	21.99	71,431
ONE-STORY BUILDING			
Code Compliance			
Provide Floor Drains @ Kitchen Per Code	3 EA	5,129.95	15,390
Replace Shower Sanitary Piping to Achieve Code		,	,
Required Slope	12 EA	4,397.10	52,765
Replace HVAC Controls - Quote	1 EA	107,728.95	107,729
Add Floor Leveler @ Door for ADA	1 LS	2,198.55	2,199
Building Exterior			
Foundation Earthwork - Cut & Fill	1,147 CY	36.64	42,017
Clean & Repair Cracks & Waterproof	5,160 SF	18.32	94,538
Perimeter Drainage System			
Trench Excavation	1,030 LF	13.19	13,587
Drain Tile	1,030 LF	8.79	9,058
Granular Backfill	860 CY	36.64	31,513
Replace Stoops	6 EA	3,664.25	21,986
Replace Sidewalk	165 SF	14.66	2,418
Replace Bituminous Pavement	6 SY	80.61	484
Turf Restoration	11,500 SF	0.73	8,428
Wall Insulation @ Exercise Area	250 SF	2.93	733
Clean Exterior of Building	11,180 SF	3.66	40,966
Tuckpointing - 20% of Exterior Area	2,236 SF	6.60	14,748
Replace Stone as Needed - Allowance	1 LS	10,992.75	10,993
Replace Concrete Ramp Walls - Allowance	1 LS	14,657.00	14,657
Replace Steel Pipe Guardrails	20 LF	175.88	3,518
Remove & Replace Windows - Historically Correct	2,795 SF	183.21	512,079
Remove & Replace Doors - Historically Correct	6 EA	5,862.80	35,177
Replace Windows @ Exercise Area	450 SF	175.88	79,148

CPMI

# PRE-DESIGN COST MANAGEMENT REPORT DAKOTA BUILDING STUDY MINNESOTA CORRECTIONAL FACILITY - FARIBAULT FARIBAULT, MINNESOTA 14 OCTOBER 2021

## **UNIT COSTS**

DESCRIPTION	QUANTITY	UNIT COST	TOTAL \$ AMOUNT
Demolish the two story masonry building in it's entirety and construct a new single story structure (square footage to be 50% larger than what is demolished) to provide for replacement and to meet ADA, ACA and IT advancements. The existing single story building to have the roof, brick, windows, etc., evaluated and priced as an asset preservation effort.			
ONE-STORY BUILDING			
Roofing			
Remove & Replace Asphalt Shingles Incl Underlayment	19,438 SF	16.12	313,393
Add Roof Insul @ Exercise Area	900 SF	4.40	3,957
Remove & Replace Soffit/Fascia/Trim	800 LF	43.97	35,177
Replace Gutters & Downspouts	300 LF	21.99	6,596
Interiors			
Replace Acoustical Ceilings	12,177 SF	7.33	89,239
Paint Gyp Board Ceilings	2,402 SF	1.47	3,521
Paint Interior Walls	18,000 SF	1.25	22,425
Paint Doors & Frames	, 40 EA	219.86	8,794
Replace VCT Flooring	10,275 SF	6.96	71,535
Remodel Area for Laundry	260 SF	146.57	38,108
Revise Lighting, Cameras & Sprinklers @			
Exercise Area Roof Insulation	900 SF	10.99	9,893
Remodel Existing Offices Into New Intake			
Room, Strip Search Room & Locker Room	1,050 SF	139.24	146,204
Basement			
Underslab Drainage System			
Remove Basement Floor	12,000 SF	6.96	83,545
Drain Tile	720 LF	8.79	6,332
Granular Fill	50 CY	36.64	1,832
Sand Cushion	12,000 SF	0.37	4,397
Vapor Barrier	12,000 SF	0.22	2,638
New Basement Floor Slab	12,000 SF	12.82	153,899
Duplex Sump Pump & Basin	1 EA	10,992.75	10,993
Install Louvers & Increase Air Cirulation	1 LS	2,931.40	2,931
Add Concrete Slab Under Utility Routes	1 LS	7,328.50	7,329
Salvage Floor Structure Above Utility Piping	1 LS	1,465.70	1,466
VAV AHU For Ventilation/Dehumidification - 10,000 CFM	1 LS	80,613.50	80,614
Replace Piping Insulation	12,000 SF	2.56	30,780

# **CPMI**

\$2,091,000

# PRE-DESIGN COST MANAGEMENT REPORT DAKOTA BUILDING STUDY MINNESOTA CORRECTIONAL FACILITY - FARIBAULT FARIBAULT, MINNESOTA 14 OCTOBER 2021

## **UNIT COSTS**

**TOTAL NEW CONSTRUCTION COST** 

DESCRIPTION	QUANTITY	UNIT COST	TOTAL \$ AMOUNT
Demolish the two story masonry building in it's entirety and construct a new single story structure (square footage to be 50% larger than what is demolished) to provide for replacement and to meet ADA, ACA and IT advancements. The existing single story building to have the roof, brick, windows, etc., evaluated and priced as an asset preservation effort.			
ONE-STORY BUILDING HVAC			
Add HVAC @ Exercise Room	900 SF	73.29	65,957
SUBTOTAL			\$2,387,000
DESIGN/ESTIMATING CONTINGENCY - 15.0%			\$358,000
LABOR & MATERIAL ESCALATION (Midpoint Jul-2023) - 10.7%		_	\$294,000
TOTAL REMODEL CONSTRUCTION COST			\$3,039,000
NEW 4 STORY ARRITION			
NEW 1-STORY ADDITION New Construction			
Areas Include Classroom, Laundry & Circulation	4,383 SF	374.85	1,642,980
SUBTOTAL			\$1,643,000
DESIGN/ESTIMATING CONTINGENCY - 15.0%			\$246,000
LABOR & MATERIAL ESCALATION (Midpoint Jul-2023) - 10.7%		_	\$202,000



\$908,000

## **UNIT COSTS**

14 OCTOBER 2021

**TOTAL NEW CONSTRUCTION COST** 

DESCRIPTION	QUANTITY	UNIT COST	TOTAL \$ AMOUNT
Demolish the two story masonry building in it's entirety and construct a new single story structure (square footage to be 50% larger than what is demolished) to provide for replacement and to meet ADA, ACA and IT advancements. The existing single story building to have the roof, brick, windows, etc., evaluated and priced as an asset preservation effort.			
SITE			
Civil			
Erosion Control Allowance	1 LS	1,319.13	1,319
Remove Concrete Retaining Wall @ Sloped Ramps	230 SF	17.59	4,045
Remove Concrete Pavement @ Sloped Ramps	860 SF	4.40	3,782
Remove Sidewalk @ Sloped Ramps	440 SF	2.93	1,290
New ADA Code Compliant Sidewalk @ Sloped Ramps	830 SF	9.53	7,907
Compacted Backfill @ Removed Ramps	100 CY	36.64	3,664
Concrete Sidewalks	1,115 SF	9.53	10,623
7" Thick Concrete Valley Gutter	80 LF	117.26	9,380
Bituminous Pavement	2,800 SY	58.63	164,158
Finish Grade, Misc Site Restoration	1 LS	6,375.80	6,376
Site Utilities			
Construct Tunnel Under Addition for Campus Utilities	80 LF	4,030.68	322,454
New Campus Utility Piping & Cut-Over			
10" Steam	100 LF	549.64	54,964
5" Condensate	100 LF	403.07	40,307
3/4" Condensate	100 LF	87.94	8,794
5" Domestic Water	100 LF	403.07	40,307
3" Chilled Water Supply & Return	100 LF	256.50	25,650
Utility Allowance For Steam, Condensate, Hot			
& Cold Water	1 LS	7,328.50	7,329
Route Roof Downspouts Away From Bldg	1 LS	732.85	733
SUBTOTAL			\$713,000
DESIGN/ESTIMATING CONTINGENCY - 15.0%			\$107,000
LABOR & MATERIAL ESCALATION (Midpoint Jul-2023) - 10.7%		_	\$88,000